NAD SERVICE MANUAL

MONITOR SERIES

6340

CASSETTE DECK

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SPECIFICATION

Cassette mechanism: Full logic 2 motor 2 head system
Track system: 4-track, 2-channel stereo

Mechanical Performance

		Unit
Tape speed	4.75	cm/sec
Wow and flutter		
PLAYBACK (JIS WRMS)	0.05	%
Tape drive force	100~250	g
Play torque	30~75	g/cm
F.F torque	70~160	g/cm
REW torque	70~160	g/cm
F.F time (C-60)	85~120	sec
REW time (C-60)	85~120	sec

Electrical Performance

	Nominal	Limit	Unit
Input sens./impedance			
(to Dolby level)	40±1 dB/10		mV/kΩ
Frequency response			
PLAYBACK	40~18k		Hz
Frequency response REC/PLAY			
(at Dolby level -25 dB, Dolby NR:OFF)			
TYPE I	35~17k		Hz
TYPE II	35~18k		Hz
TYPE IV	35~18k		Hz
Signal to noise ratio at Dolby level, Dolby NR:OFF			
(CCIR ARM weighted / 20~20k Hz B.P.F)			
TYPE I No tape	59/52	56/49	dB
Virgin tape	54/51	52/48	dB
Biased tape	50/49	48/46	dB
TYPE II,IV No tape	63/54	59/51	dB
Virgin tape	58/53	54/50	dB
Biased tape	52/50	50/48	dB
Dolby NR effect			
(CCIR ARM at Dolby level)			
Dolby NR B	9	8.5	dB
Dolby NR C	18	17	dB
Erase effect (with 1 kHz B.P.F)			
0 VU + 10 dB input	70	65	dB

	Nominal	Limit	Unit
Separation (with 1 kHz B.P.F) REC/PLAY			
Dolby level input at 1 kHz	40	35	dB
Cross talk at 1 kHz (with 1 kHz B.P.F)			
0 VU + 10 dB input	70	65	dB
Output level at Dolby level			
MTT-150 PLAY	505	505 ± 1 dB	mV
Distortion (at Dolby level 1 kHz)			
TYPE I	1.0	1.5	%
TYPE II	2.2	2.9	%
TYPE IV	1.2	2.2	%
Compress effect (boost ratio) at Dolby level -40 dB			
30 Hz	+18	+16/+20	dB
1 kHz	+12	+10/+14	dB
20 kHz	+16	+14/+18	dB

General

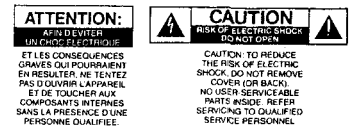
		Unit
Power supply	120 V 60 Hz (for A,A1,A2)	
	220~240 V 50 Hz (for B,B1,C,C1,C2)	
Power consumption	22(0.2)	W(A)
Dimensions(W/D/H)		
(include knob and leg)	420/271/122	mm
Net weight	4.5	kg

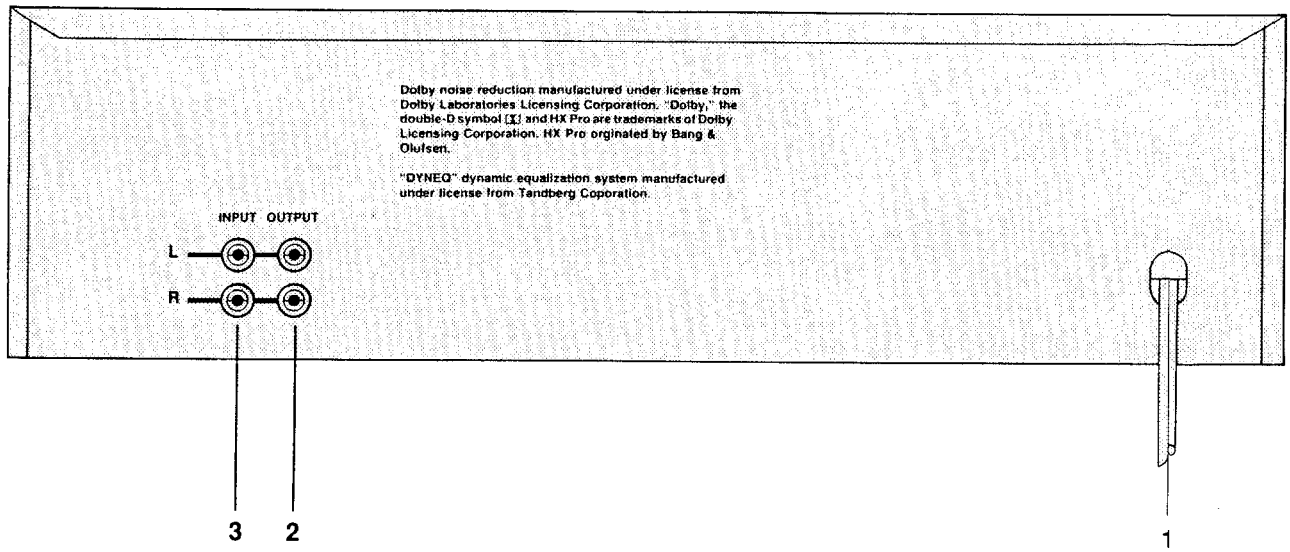
The specifications are subject to change without prior notice.

A : USA
A1 : CANADA
A2 : TAIWAN
B : U.K.
B1 : AUSTRALIA/N.Z.
C : EUROPE & OTHERS
C1 : W.GERMANY
C2 : G.P.M.

REAR PANEL

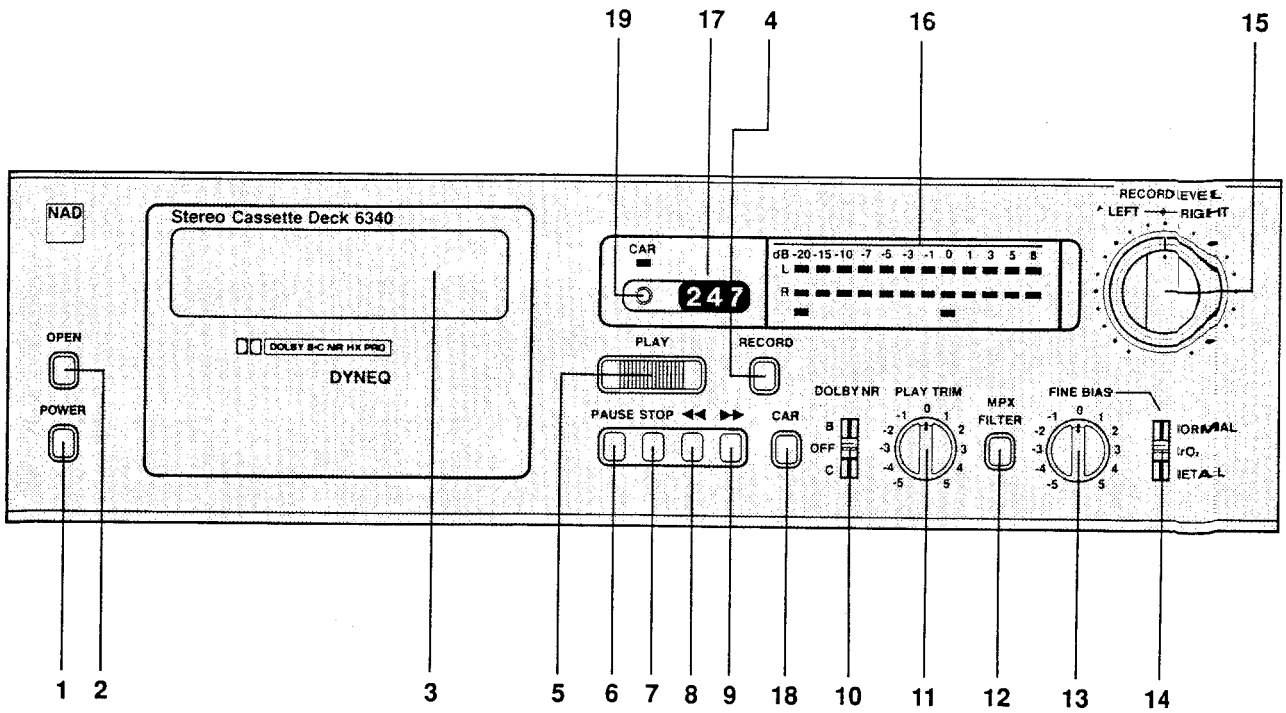
1. AC Power Cord.
2. Line Output.
3. Line Input.


ATTENTION:
AFIN D'EVITER UN CHOC ELECTRIQUE
ET LES CONSEQUENCES GRAVES QUI POURRAIENT EN RESULTER, NE TENTEZ PAS D'OUVRIR L'APPAREIL ET DE TOUCHER AUX COMPOSANTS INTERNES SANS LA PRESENCE D'UNE PERSONNE QUALIFIEE.
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL


Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "Dolby," the double-D symbol and HX Pro are trademarks of Dolby Licensing Corporation. HX Pro orginated by Bang & Olufsen.
"DYNEQ" dynamic equalization system manufactured under license from Tandberg Coporation.
INPUT OUTPUT
L
R
3
2
1

FRONT PANEL

1. Power.
2. Open.
3. Cassette Compartment.
4. Record.
5. Play.
6. Pause.
7. Stop.
8. Rewind(◀◀).
9. Fast Forward(▶▶).
10. Dobly NR.
11. Play Trim.
12. Multiplex Filter.
13. Fine Bias.
14. Tape Selector.
15. Recording Level Left/Right.
16. Recording Level Display.
17. Tape Counter.
18. CAR Processor.
19. Re-set.



ALIGNMENT METHOD

IMPORTANT

The tape path (heads, tape guides, capstan, pinch roller) should be cleaned and degaussed before alignment.

This tape recorder is designed to work well with a variety of tapes, however, maximum performance will be obtained with recommended tapes or similar tape formulations.

Recommended tapes	For North America	For Europe-DIN
Type I	Maxell UDS-I	Maxell UD-I, BASF TP18 no, R723DG
Type II	Maxell XL-II	Maxell XL-II, Teac MTT-5561
Type IV	Maxell MX	Maxell MX, Maxell MX 422

Before adjusting, switch DOLBY NR, MPX FILTER, CAR off; and PLAY TRIM, FINE BIAS to center position.

DOLBY NR level 200 nWb/m = 245 mV RMS on testpoints TP003 (PLAYBACK and RECORDING) on Main PCB; approximately 505 mV at line outputs.

1. TAPE SPEED
Connect one output to Wow and Flutter Meter or Frequency Counter, Play speed test tape TEAC MTT-111 = 3 kHz or TEAC MTT-211 = 3.15 kHz and adjust the semi-variable resistor, for correct reading on Wow and Flutter Meter or Frequency Counter.(See Fig. A)

Tolerance: ±1%

2. AZIMUTH
Connect VTVM's and/or Oscilloscope to outputs. Set tape selector to normal and start playing Azimuth tape TEAC MTT-113 or MTT-114. Rotate azimuth screw for maximum output and/or maximum and in phase on Oscilloscope. Reseal adjustment screw with nail polish or similar (do not use glue).(See Fig. B)

3. PLAYBACK EQ
THIS ADJUSTMENT IS NOT NEEDED UNLESS THE HEAD HAS BEEN REPLACED OR REPAIR HAS BEEN DONE IN HEADAMP CIRCUIT.

Play level/azimuth tape TEAC MTT-256 and adjust SVR001(L) and SVR002(R) for identical output at 315/6300 Hz (MTT-255) or 250/6300 Hz (MTT-256).

Tolerance: ±0.5 dB

4. PLAYBACK HIGH FREQUENCY EQ
THIS ADJUSTMENT SHOULD BE DONE ONLY WHEN HEAD HAS BEEN REPLACED.

Play frequency response tape TEAC MTT-256 or MTT-256U and check playback level at 14 kHz.
Before adjust, cut the center of jumper leads E001(L) and E002(R). Adjust by disconnecting E003(L) and E004(R) if 14 kHz is too high and connecting E001(L) and E002(R) if 14 kHz is too low. Leave same component values in both channels.

Tolerance: $^{+1.5}_{-0.5}$ dB

5. PLAYBACK LEVEL
Connect VTVM to testpoints. Play Dolby NR level tape TEAC MTT-150 and adjust SVR003(L) and SVR004(R) for 245 mV RMS at testpoint TP003 on Main PCB.

Tolerance: ±2.5 mV RMS

Output should be approximately 505 mV RMS.

6. METER LEVEL
Play Dolby NR level tape MTT-150 and adjust SVR005(L) and SVR006(R) so that 0 dB LED's just turn on.

7. BIAS TRAP
Insert a blank type I tape and start recording. Turn record level all the way down and set tape selector to type IV position. Connect VTVM's and/or oscilloscope probe to testpoint TP201 and adjust F201(L) and F202(R) for minimum.

Tolerance: Less than 300 mV RMS.

8. RECORD LEVEL
Set tape selector to type I tape. Connect audio oscillator to line inputs, turn record levels to maximum (clockwise). Adjust audio oscillator frequency to 400 Hz and output so that VTVM's read 30 – 40 mV. (Use a convenient reference point on the VTVM's).

Reset tape counter to 0 and release pause to start recording. Record for approximately 5 seconds, rewind to 0 on tape counter and play back while observing the VTVM's. The VTVM's should indicate the same level as when the tape was recorded. Adjust SVR201(L) and SVR202(R) if necessary and repeat the record / play procedure until the readings are the same.

Tolerance: ±0.5 dB from record level. Less than 0.5 dB difference between channels.

9. BIAS ADJUST TYPE I TAPE (NORMAL)
Set audio generator to 1.2 kHz without changing output level. Reset tape counter to 0 and start recording. After 5 seconds change audio generator frequency to 12 kHz (do not stop the machine or change levels) and continue recording for another 5 seconds. Stop and rewind to 0 on tape counter. Play back while observing VTVM's. There should be no level difference between the 1.2 kHz and the 12 kHz tone when played back. If 12 kHz is different in level for 1.2 kHz, adjust SVR305(L) and SVR306(R) and repeat the record / play procedure until both frequencies play back at same level.

Tolerance: ±0.5 dB

WARNING: Greater tolerance will grossly affect the Dolby NR tracking and especially the Dolby C tracking.

Record level (step 8) should be checked and if necessary adjusted.

10. PEAKING CIRCUIT TYPE I TAPE (NORMAL)

Adjust audio generator to 17 kHz while maintaining the same output level. Record and play back the 17 kHz tone and adjust SVR207(L) and SVR208(R) to the same level as the 1.2 kHz signal.

Tolerance: ±1 dB

WARNING: If the R/P head is worn, the tape may not have adequate contact with the head, resulting in severe drop outs. A worn head will make this adjustment very difficult or impossible. DO NOT try to adjust the worn R/P head. Leave SVR207(L) and SVR208(R) in the factory preset condition, or if they have already been adjusted, readjust them to their approximate midposition.

11. FREQUENCY RESPONSE TYPE II TAPE (CrO2)

Insert a type II tape and set selector to type II position. Adjust audio generator to 1.2 kHz and 12 kHz and repeat process described in step 9 using SVR303(L) and SVR304(R) to adjust both channel simultaneously. After 1.2 kHz and 12 kHz are adjusted properly, set audio generator to 18 kHz and repeat same process as described in step 10 while adjusting SVR205(L) and SVR206(R) to obtain correct reading.

12. FREQUENCY RESPONSE TYPE IV TAPE (METAL)

Insert a type IV tape and set selector to type IV position. Repeat procedure as in step 9 while adjusting SVR301(L) and SVR302(R) for correct 12 kHz level in both channels. Set audio generator to 18 kHz and repeat process as in step 10 while adjusting SVR203(L) and SVR204(R) for correct 18 kHz record level.

13. DYNEQ

Engage record and play mode. Adjust audio generator to 14 kHz and output so that tape recorder output is -5 dB from Dolby NR level (approximately 280 mV RMS). Set tape selector to type I position and connect VTVM probe to test point TP202 and adjust SVR209(L) and SVR210(R) from fully counter-clockwise position until the output on the probe decreases 1 dB.

14. CAR

Engage record and pause mode. Adjust audio generator to 1 kHz and output so that voltage at TP003 is 24 mV. Switch CAR on, adjust SVR101(L) and SVR102(R) to increase 5 dB at TP003.

ALIGNMENT COMPONENTS LAYOUT

Fig. A FOR ADJUSTING TAPE SPEED

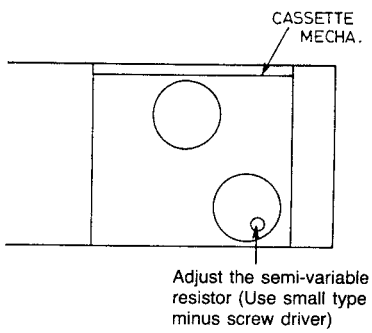


Fig. B FOR ADJUSTING AZIMUTH

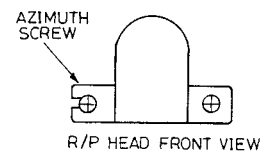
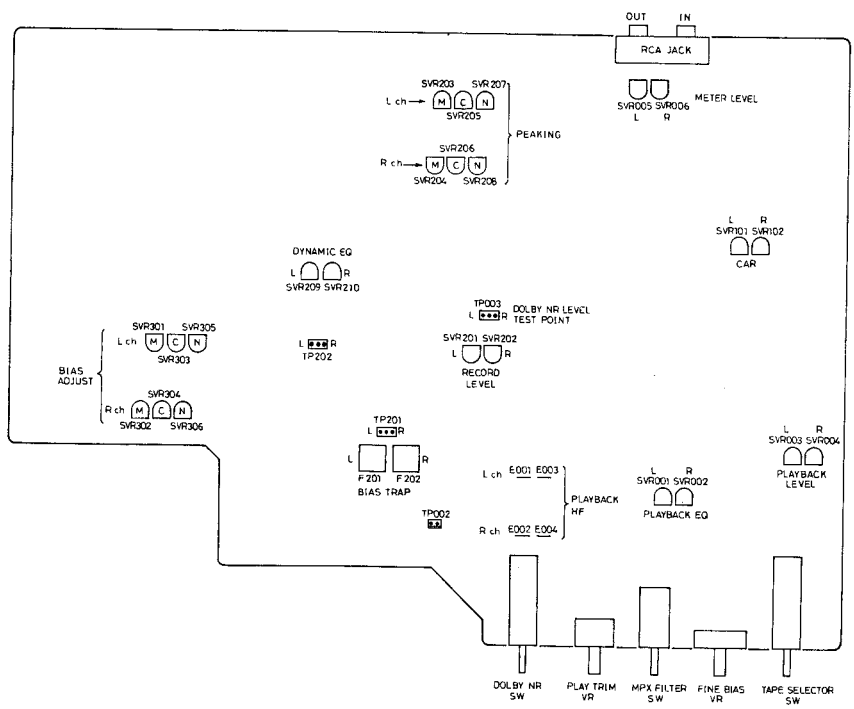
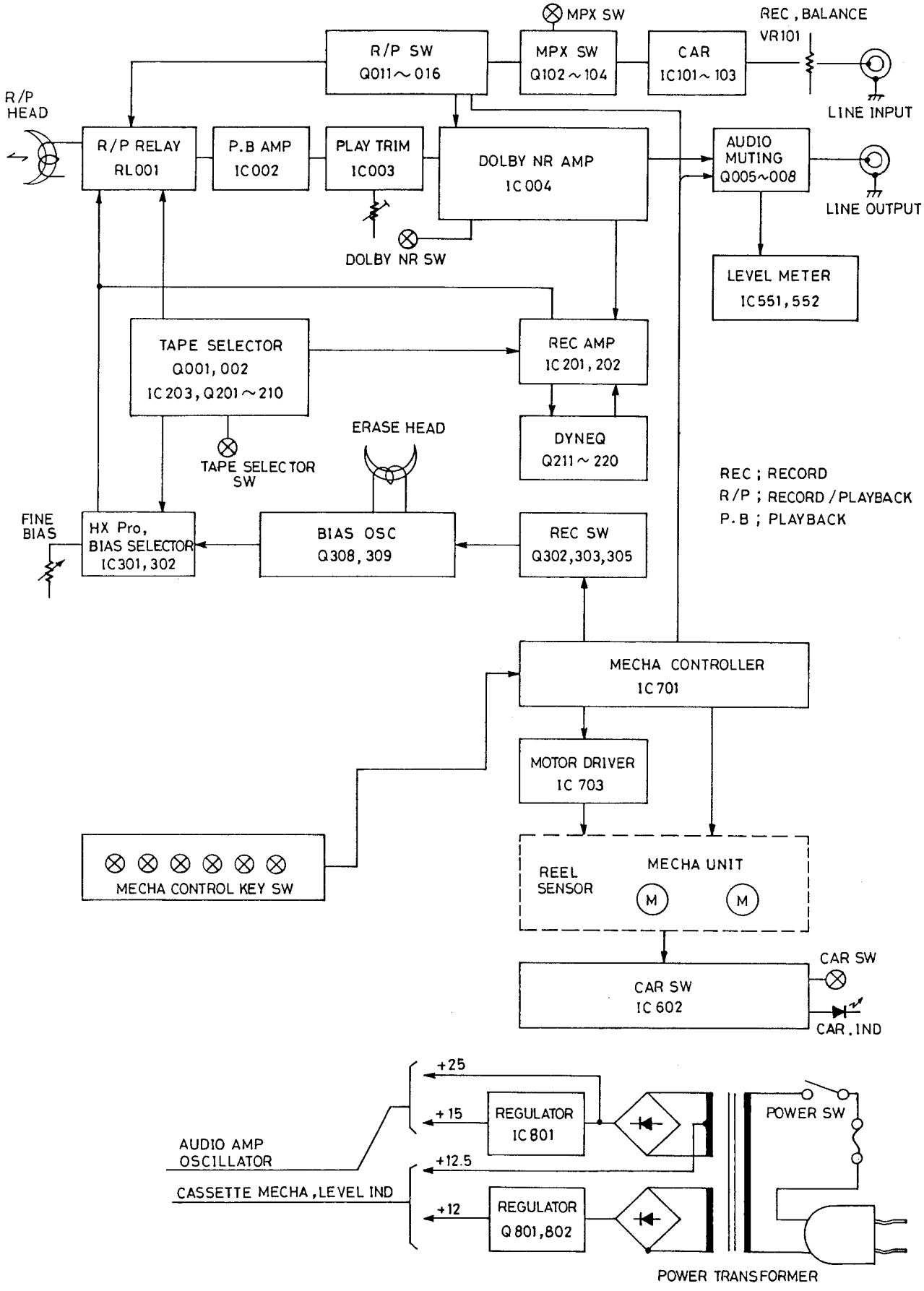


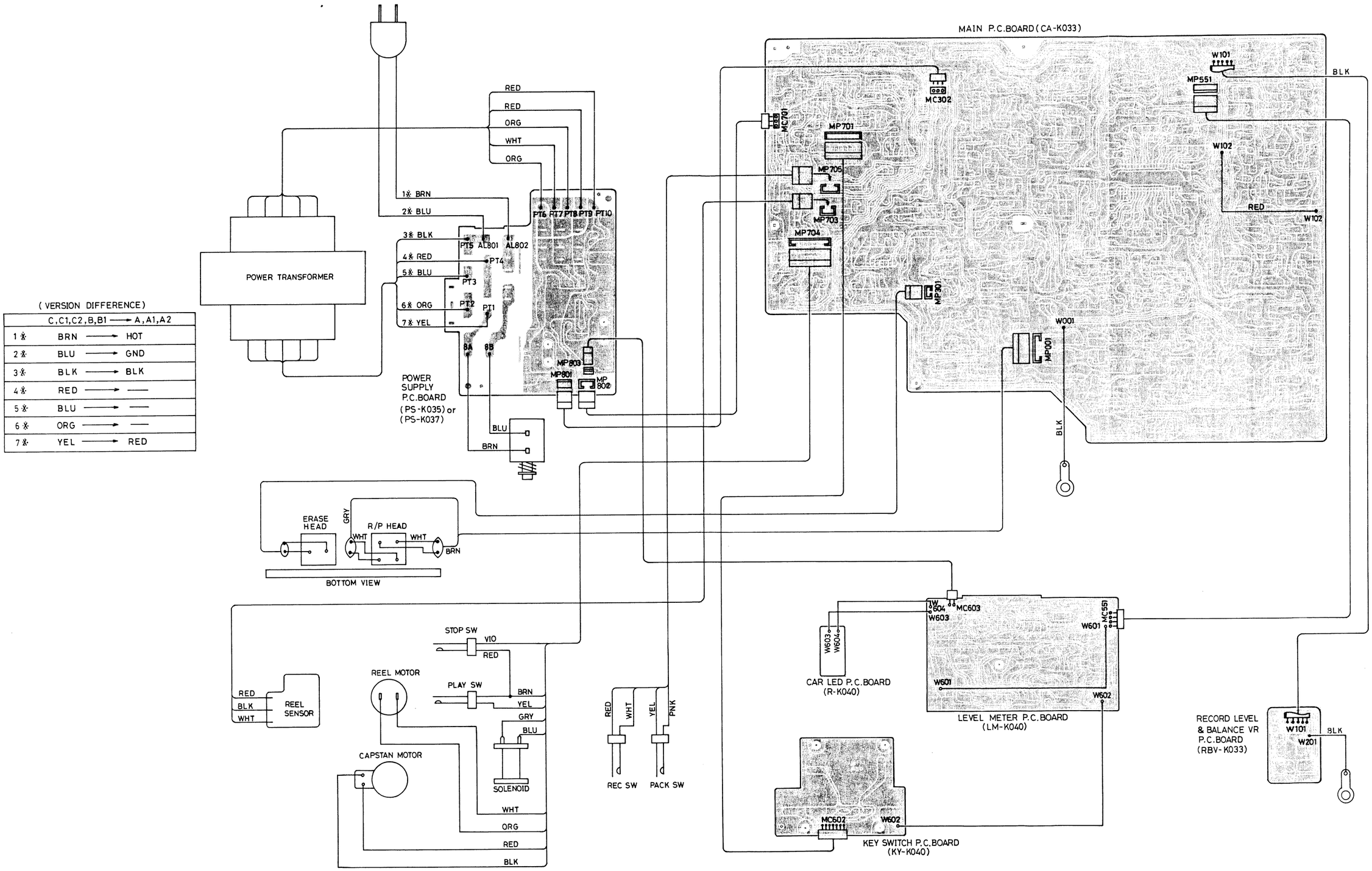
Fig. C FOR MAIN PCB



BLOCK DIAGRAM



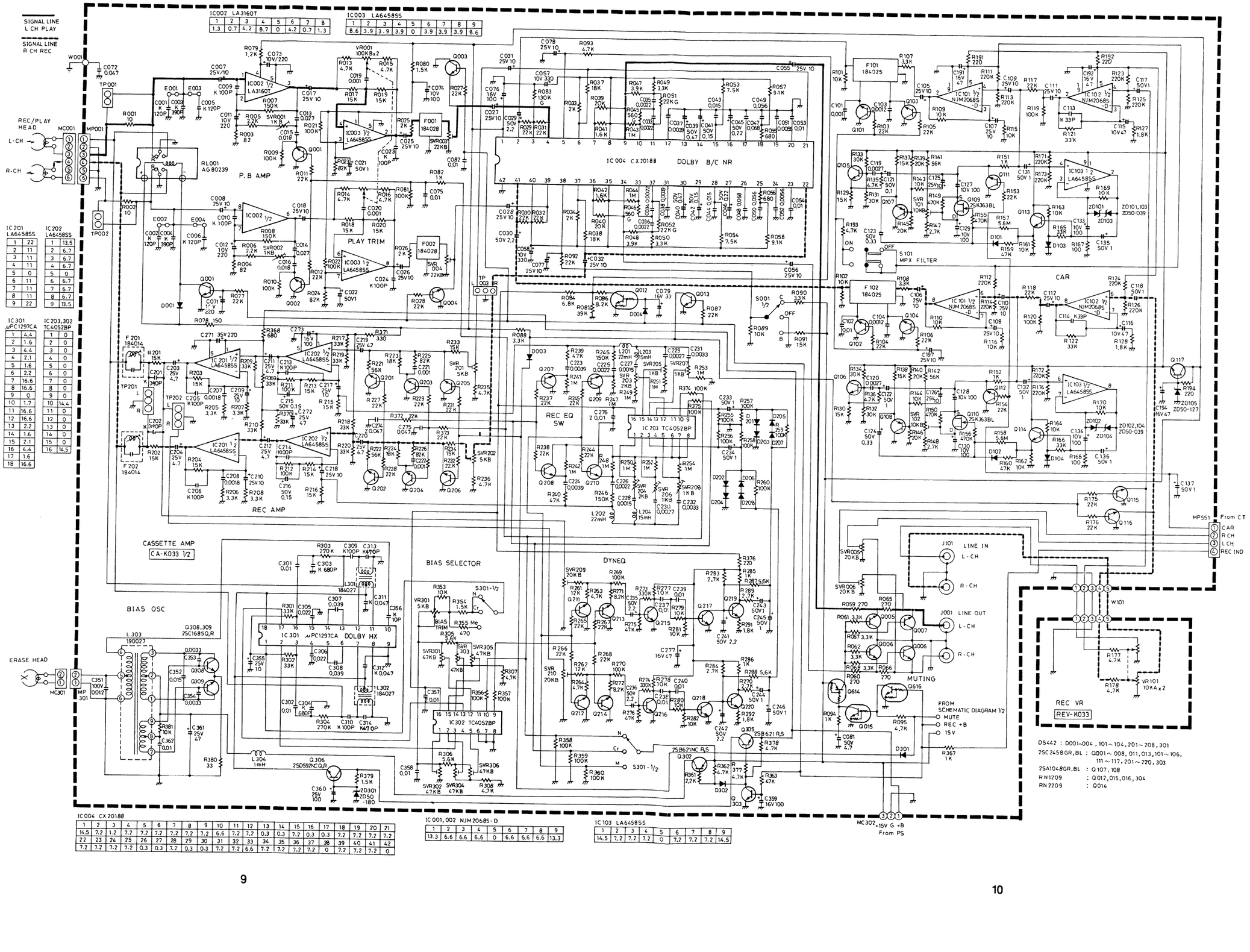
WIRING DIAGRAM (Component side)



(VERSION DIFFERENCE)

C,C1,C2,B,B1 ⟶ A,A1,A2		
1※	BRN ⟶	HOT
2※	BLU ⟶	GND
3※	BLK ⟶	BLK
4※	RED ⟶	—
5※	BLU ⟶	—
6※	ORG ⟶	—
7※	YEL ⟶	RED

SCHEMATIC DIAGRAM



IC002 LA3160T							
1	2	3	4	5	6	7	8
1.3	0.7	4.2	8.7	0	4.2	0.7	1.3

IC003 LA6458SS								
1	2	3	4	5	6	7	8	9
8.6	3.9	3.9	3.9	0	3.9	3.9	3.9	8.6

IC 201 LA6458SS	
1	22
2	11
3	11
4	11
5	0
6	11
7	11
8	11
9	22

IC 202 LA6458SS	
1	13.5
2	6.7
3	6.7
4	6.7
5	0
6	6.7
7	6.7
8	6.7
9	13.5

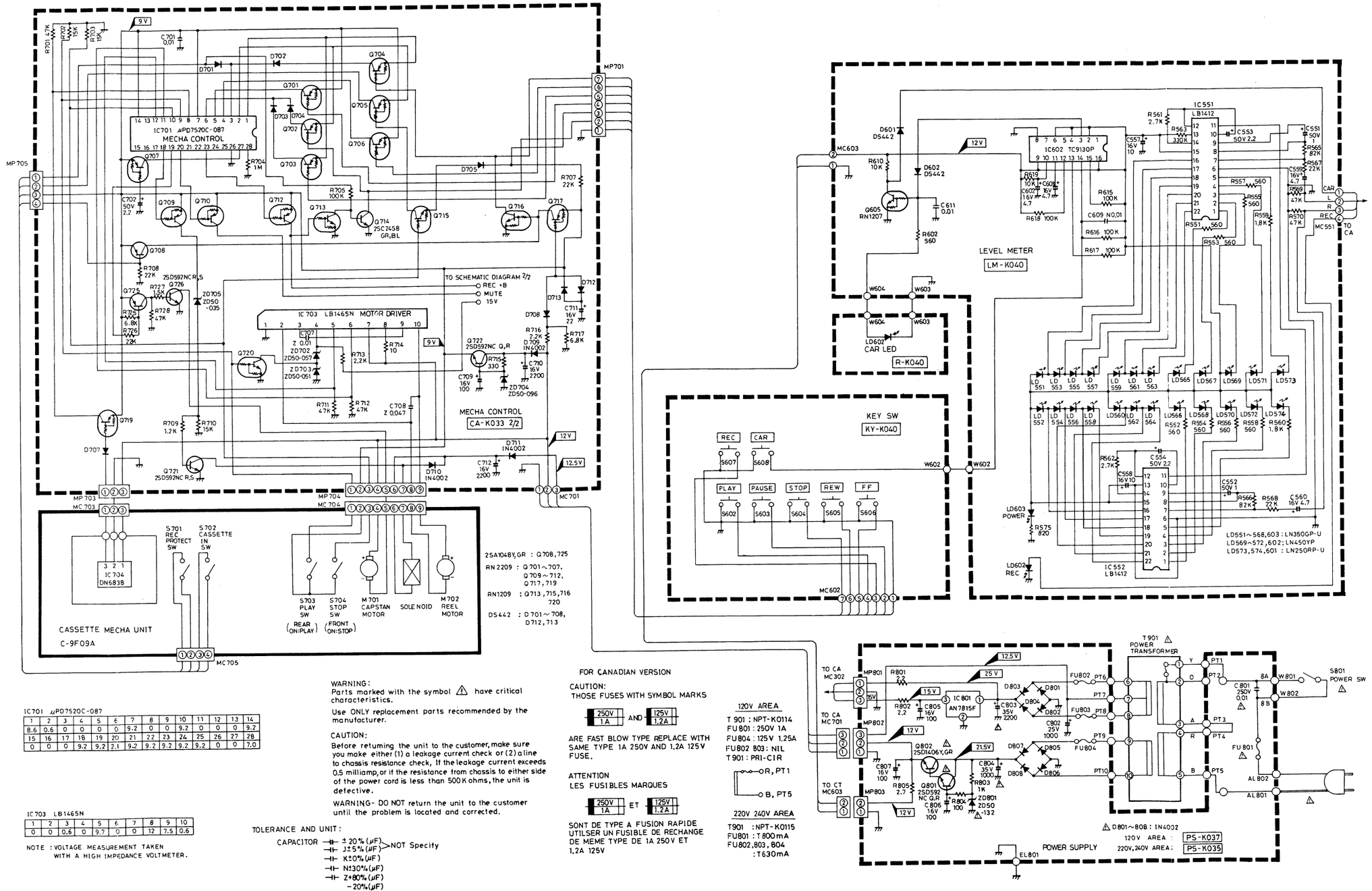
IC 301 μPC1297CA	
1	4.4
2	1.6
3	4.4
4	2.1
5	1.6
6	2.2
7	16.6
8	16.6
9	0
10	1.7
11	16.6
12	16.6
13	2.2
14	1.6
15	2.1
16	4.4
17	1.6
18	16.6

IC 203,302 TC4052BP	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	14.4
11	0
12	0
13	0
14	0
15	0
16	14.5

IC 302 TC4052BP								
1	2	3	4	5	6	7	8	9
13.3	6.6	6.6	6.6	0	6.6	6.6	6.6	13.3

IC004 CX20188																			
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21
14.5	7.2	1.2	7.2	7.2	7.2	7.2	7.2	7.2	6.6	7.2	7.2	0.3	0.3	7.2	0.3	0.3	7.2	7.2	7.2	7.2
22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
7.2	7.2	7.2	7.2	0.3	0.3	7.2	0.3	0.3	7.2	7.2	6.6	7.2	7.2	7.2	7.2	0	7.2	7.2	7.2	0

IC 103 LA6458SS									
1	2	3	4	5	6	7	8	9	
14.5	7.2	7.2	7.2	0	7.2	7.2	7.2	14.5	



IC602 TC9130P

1	2	3	4	5	6	7	8	
0	12	0	12	12	12	0	0	
9	10	11	12	13	14	15	16	
12	12	12	12	12	12	12	12	(V)

IC551,552 LB1412

1	2	3	4	5	6	7	8	9	10	11
10.5	10.5	10.5	10.5	10.5	0	6.2	6.2	6.2	6.2	0.4
12	13	14	15	16	17	18	19	20	21	22
6.2	5.8	1.5	12	10.5	10.5	10.5	10.5	10.5	10.5	10.5 (V)

IC701 μPD7520C-087

1	2	3	4	5	6	7	8	9	10	11	12	13	14
8.6	0.6	0	0	0	0	9.2	0	0	9.2	0	0	0	9.2
15	16	17	18	19	20	21	22	23	24	25	26	27	28
0	0	0	9.2	9.2	2.1	9.2	9.2	9.2	9.2	9.2	0	0	7.0

IC703 LB1465N

1	2	3	4	5	6	7	8	9	10
0	0	0.6	0	9.7	0	0	12	7.5	0.6

NOTE : VOLTAGE MEASUREMENT TAKEN WITH A HIGH IMPEDANCE VOLTMETER.

WARNING:
Parts marked with the symbol ⚠ have critical characteristics.

Use ONLY replacement parts recommended by the manufacturer.

CAUTION:
Before returning the unit to the customer, make sure you make either (1) a leakage current check or (2) a line to chassis resistance check, If the leakage current exceeds 0.5 milliamp, or if the resistance from chassis to either side of the power cord is less than 500 K ohms, the unit is defective.

WARNING- DO NOT return the unit to the customer until the problem is located and corrected.

TOLERANCE AND UNIT:

CAPACITOR ±20% (μF), J±5% (μF) >NOT Specify, K±10% (μF), N±30% (μF), Z+80% −20% (μF)

RESISTOR ±5% (Ω) 1/4W AND 1/6W- NOT Specify, G±2% (Ω) 1/4W

FOR CANADIAN VERSION

CAUTION:
THOSE FUSES WITH SYMBOL MARKS

250V 1A AND 125V 1.2A

ARE FAST BLOW TYPE REPLACE WITH SAME TYPE 1A 250V AND 1.2A 125V FUSE.

ATTENTION
LES FUSIBLES MARQUES

250V 1A ET 125V 1.2A

SONT DE TYPE A FUSION RAPIDE UTILSER UN FUSIBLE DE RECHANGE DE MEME TYPE DE 1A 250V ET 1.2A 125V

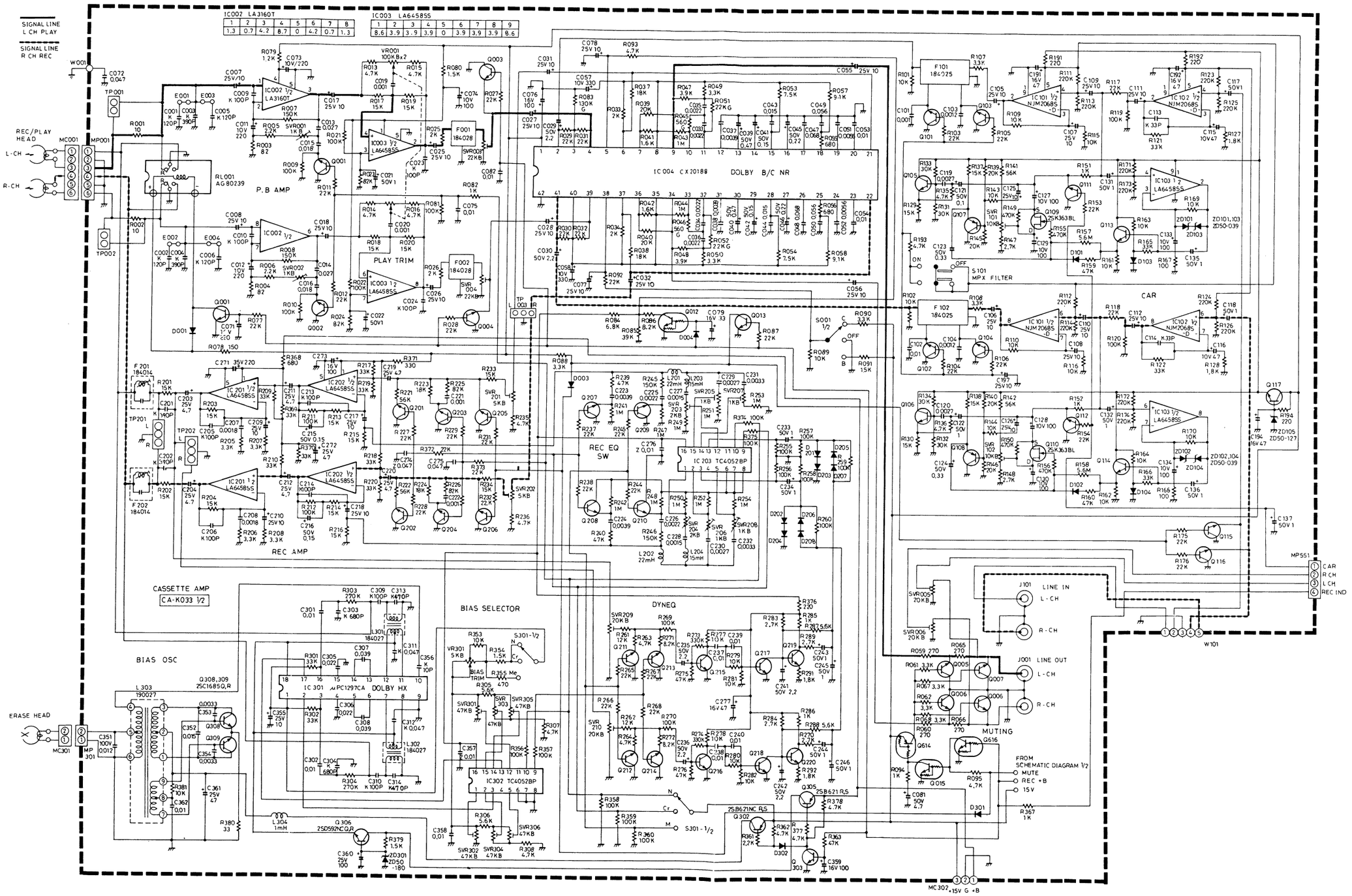
120V AREA
T 901 : NPT-K0114
FU801 : 250V 1A
FU804 : 125V 1.25A
FU802 803: NIL
T 901 : PRI-CIR
OR, PT1
B, PT5

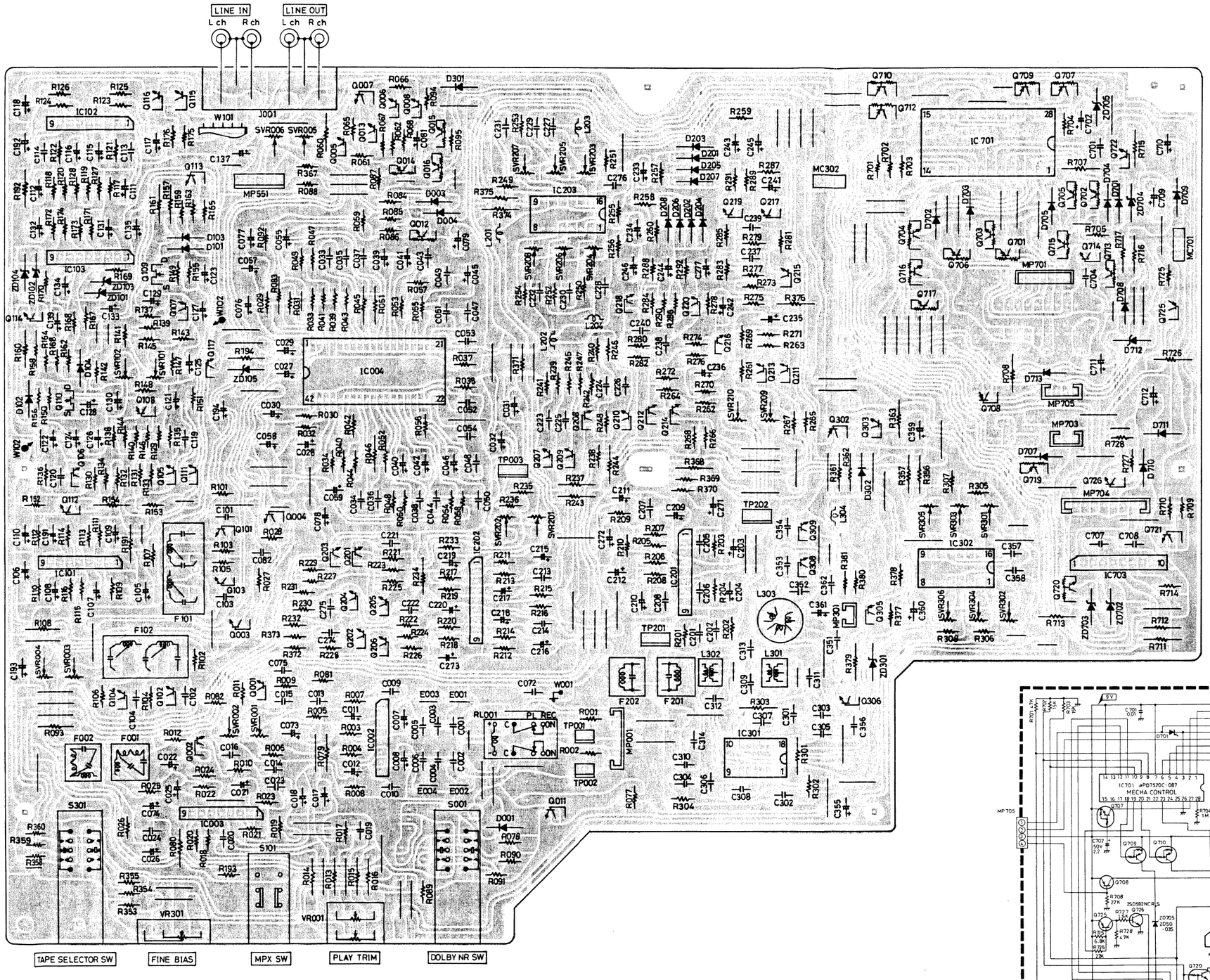
220V 240V AREA
T901 : NPT-K0115
FU801 : T 800mA
FU802,803, 804 : T630mA

⚠ D801~808 : 1N4002

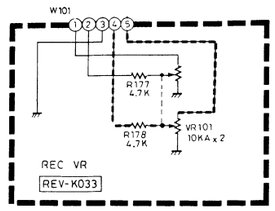
SCHEMATIC AND PCB LAYOUT (Foil side)

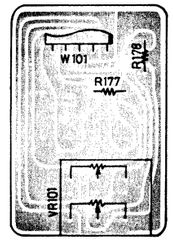
Main (CA-PCB)

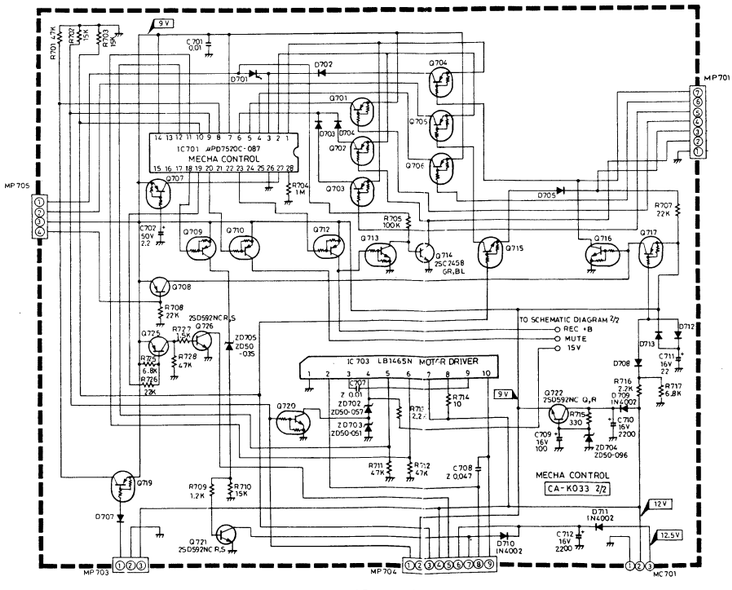




Rec. & Balance (RBV-PCB)







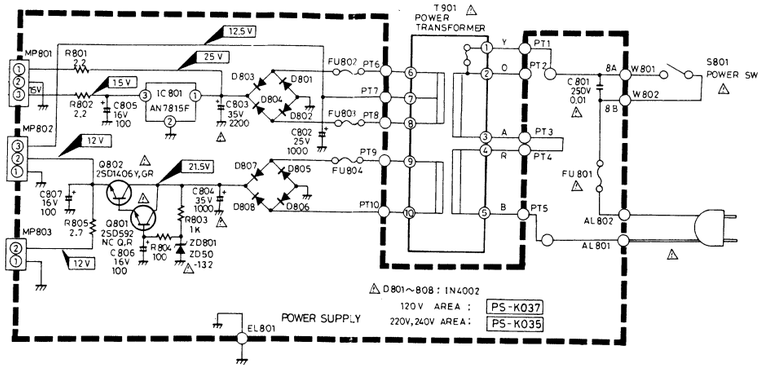
SCHEMATIC AND PCB LAYOUT (Foil side)

Power supply (PS-PCB)

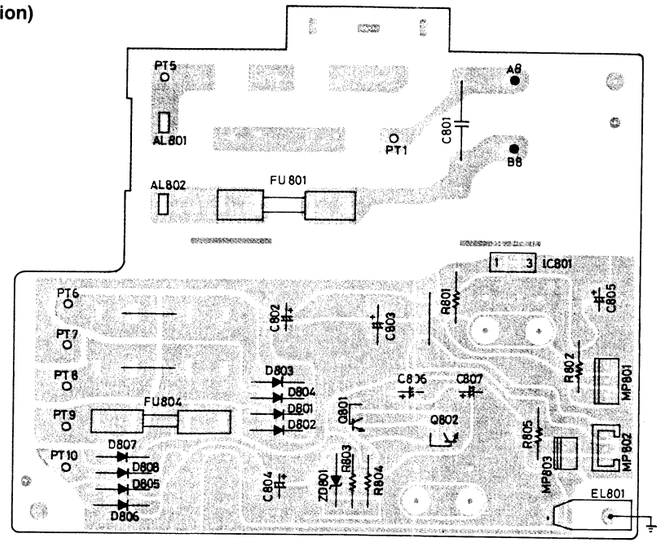
120V AREA
T 901 : NPT-K0114
FU 801 : 250V 1A
FU 804 : 125V 1.25A
FU802 803 : NIL
T 901 : PR1-C1R

O R, PT1
O B, PT5

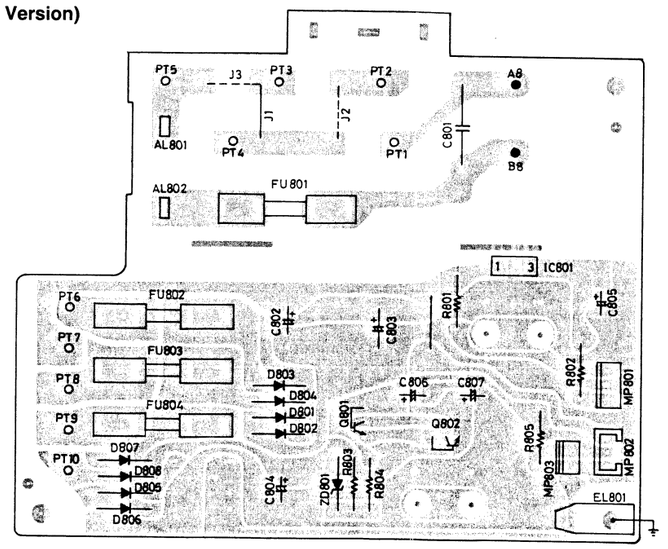
220V 240V AREA
T901 : NPT-K0115
FU801 : T 800mA
FU802,803,804 : T 630mA



(For A,A1,A2 Version)



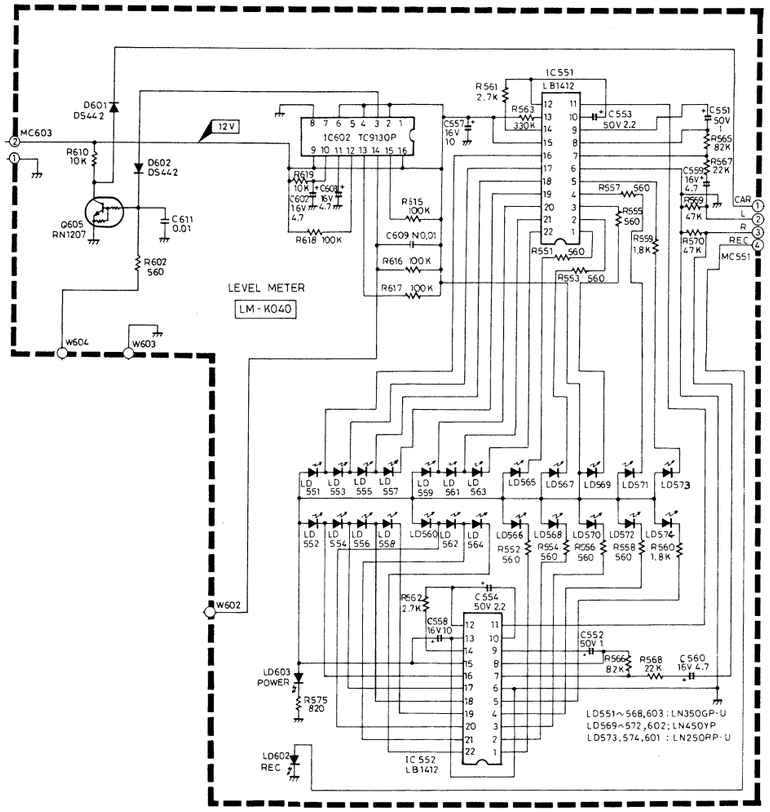
(For B,B1,C,C1,C2 Version)

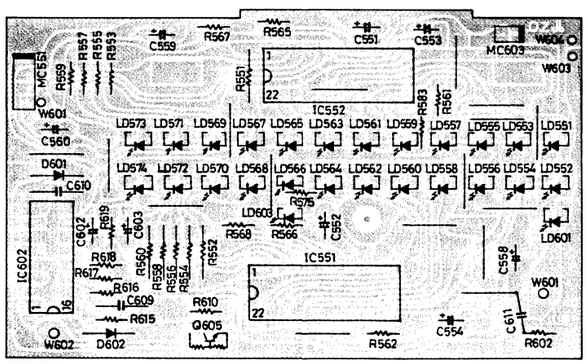


A : USA
A1 : CANADA
A2 : TAIWAN
B : U.K.
B1 : AUSTRALIA/N.Z.
C : EUROPE & OTHERS
C1 : W.GERMANY
C2 : G.P.M.

SCHEMATIC AND PCB LAYOUT (Foil side)

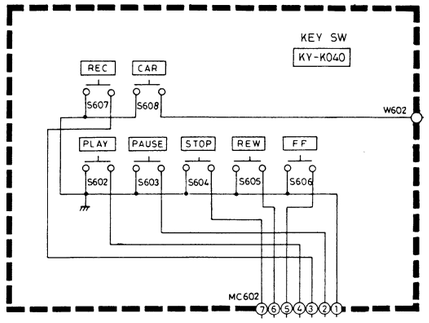
Level Meter (LM-PCB)

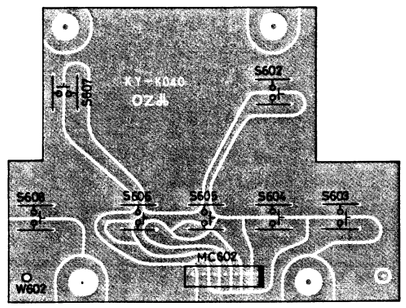




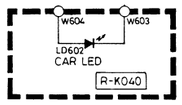
SCHEMATIC AND PCB LAYOUT (Foil side)

Key Switch (KY-PCB)





Car LED (R-PCB)



EXPLODED VIEW PARTS LIST

• Parts marked with ✱ vary according to destinations. For details, refer to the classify parts list.

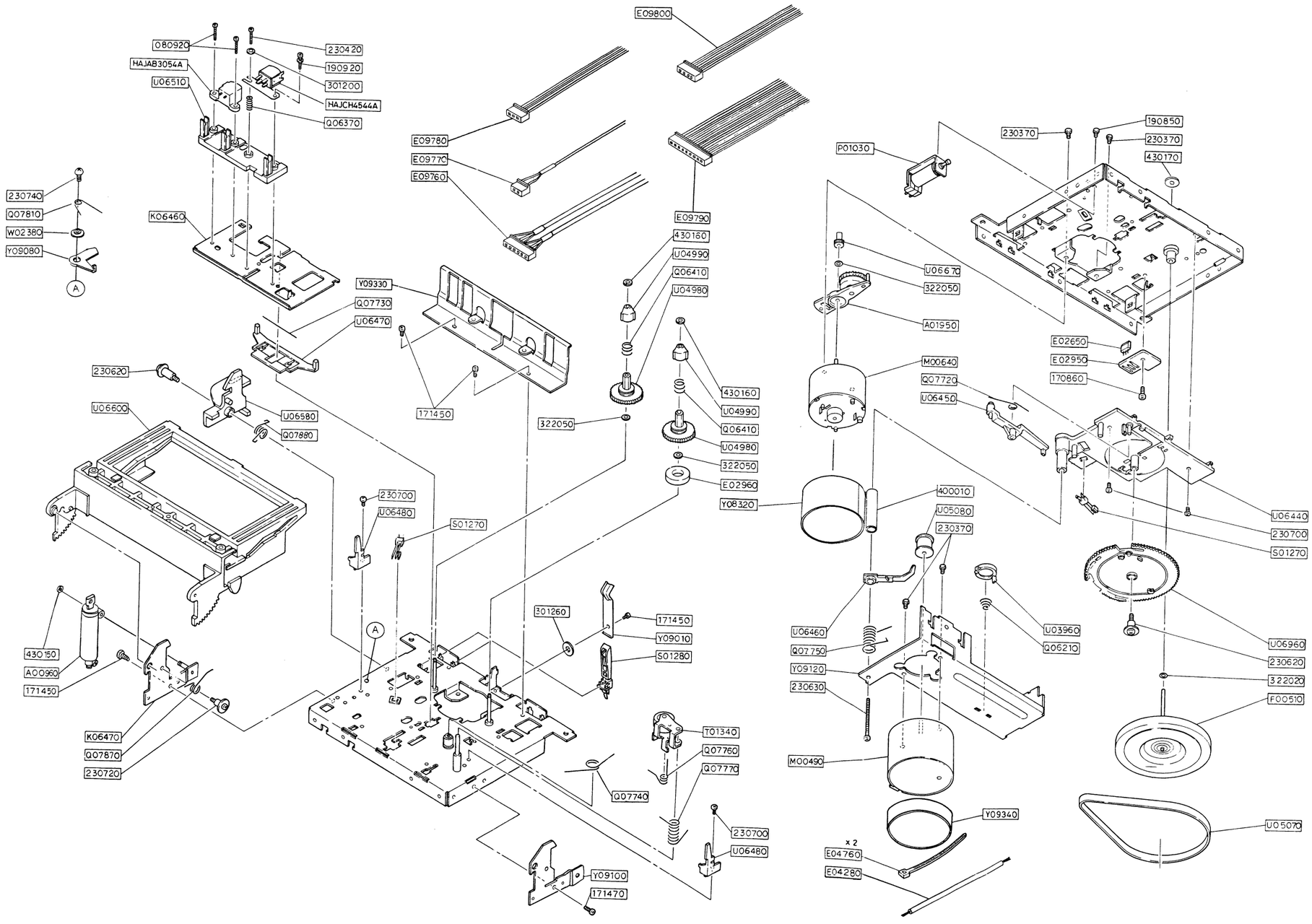
Main Unit and Packing

REF. NO.	Q'TY	PART NO.	DESCRIPTION
COILS			
✱ T901	1	NPT-K0114	POWER TRANSFORMER
SWITCHES			
S801	1	SW-1101222	POWER SWITCH
MISCELLANEOUS			
✱ 1E 2	1	ACC-033D3-4EC1	LINE CORD
1E 4	1	U9-7/8B04	UL TYPE TUBE
1M 1	1	N10497-1	FRONT PANEL
1M 5	1	N21669-1	CASSETTE LID
1M 7	1	N45392-BK	PUSH BUTTON
1M 8	1	N45391A-GY1	PUSH BUTTON
1M 9	5	N45390-BK	PUSH BUTTON
1M10	2	N45438-BK	KNOB 19
1M11	1	N45390-RD1	PUSH BUTTON
1M16	1	N21668	CABINET
✱ 1M18	1	N21667-1	REAR PANEL
1M20	1	N21670A	BOTTOM CHASSIS
1M21	1	N31053	BOTTOM PLATE
1M25	1	N45349A	CASSETTE MIRROR
2M 1	1	12-3123	VOLUME KNOB
2M 2	1	12-3124	BALANCE KNOB
2M 4	2	KNB-0449A	LEVER KNOB
2M 6	1	12-3122	POWER KNOB
2M 7	1	12-3121	PUSH KNOB
2M15	2	SPA-0124	LEVER KNOB GUIDE
2M20	4	NO.7102	FOOT
2M23	1	N45439-1	DISPLAY GLASS
2M26	1	N31055	COVER,CASSETTE MECH.
3M 2	2	N45389	JOINT PLATE
3M 4	1	N45385	BRACKET,CASSETTE MECH.
3M 5	1	N45352	EJECT PLATE
3M 6	1	N31054	OPERATION PLATE,EJECT
3M11	1	N44915-OS	FITTINGS (POTENTIOMETER)
3M12	1	N45383	BRACKET,P.C.B.
3M14	2	N44963-OS	FITTINGS (P.C.B.)
3M15	1	N45384	FITTINGS (P.C.B.)
3M16	1	N45386	BRACKET,SW
3M17	2	2AB-258-OS	REINFORCEMENT (P.T.)
3M19	6	N44959-OS	KNOB SPRING
3M21	1	N43268-OS	KNOB SHAFT
3M25	1	N44844-OS	CUSHION

REF. NO.	Q'TY	PART NO.	DESCRIPTION
4M 1	1	N41622A	LUG (TUNING)
4M 9	1	N44967-50	CABINET MAT
4M11	1	N45354	COUPLER
4M12	1	N44960	KNOB SPRING
4M28,M29	3	N40848G	SHAFT TAPE
4M30	1	N45476GL	SPACER,SHAFT
5M 1	1	N21688A-R	PACKING PAD
5M 2	1	N21688-L	PACKING PAD
5M 4	1	N21689	INNER CARTON
✱ 5M 6	1	N41318-1-OS	POLYETHYLENE BAG (UNIT)
5M 7	1	N40487-OS	POLYETHYLENE BAG (ACCESSORIES)
✱ 5M13	1	N44043-OS	LABEL, SA1965(LIGHTNING FLASH)
✱ 5M14	1	N44525-OS	LABEL, FUSE
✱ 5M15	1	N45359	CARD,WARRANTY REGISTRATION
5M21,M22	3	N45330	SERIAL LABEL
5M27	1	N45481	PROTECTION SHEET
6M 6	1	N45447	LABEL,CHINA
6M11	1	DM-866	INSTRUCTION MANUAL (COVER)
6M12	1	TEXT-866-E	INSTRUCTION MANUAL (TEXT)
✱ 6M27	1	BK3035	SAFETY INSTRUCTION SHEET
✱ 6M28	1	N45475	SHEET,PORTABLE CART WARNING
7M 1	2	TSB+26X05-B	TAP SCREW S, BIND HEAD, B
7M 6	2	TSB+30X05-Y	TAP SCREW S, BIND HEAD, Y
7M 9~M21	30	TSB+30X06-B	TAP SCREW S, BIND HEAD, B
7M26~M28	5	TSC+30X06-Y	TAP SCREW S, WASHER FACED, Y
8M 1,M 2	5	TSC+30X08-B	TAP SCREW S, WASHER FACED, B
8M 6	2	TSB+30X08-Y	TAP SCREW S, BIND HEAD, Y
8M11~M17	19	TPM+30X08-B	TAP SCREW P, ROUND HEAD, B
8M26	2	TPS+30X10-Y	TAP SCREW P,FLAT HEAD, Y
9M 1	2	TST+40X08-Y	TAP SCREW S, TRUSS, Y
9M 6	8	2AWX0830-05-B	PLAIN WASHER, B
10M 2	2	TPPW07+26X06-Y	TAP SCREW P,W ASSY,PAN HEAD,Y
10M 3	2	TBB+26X08-Y	TAP SCREW B, BIND HEAD, Y
10M 6,M 7	2	VJR-3	SNAKE LUG
23E18	2	PC-060	RCA PIN CORD ASS'Y
23E20	1	C-90F09A	CASSETTE MECHANISM
23E26	1	SG10-050B1-839	COUNTER
✱ 23E28	1	SR-4N-4	CORD STOPPER
23E30	3	KGLS-10RT	SPACER

EXPLODED VIEW AND PARTS LIST

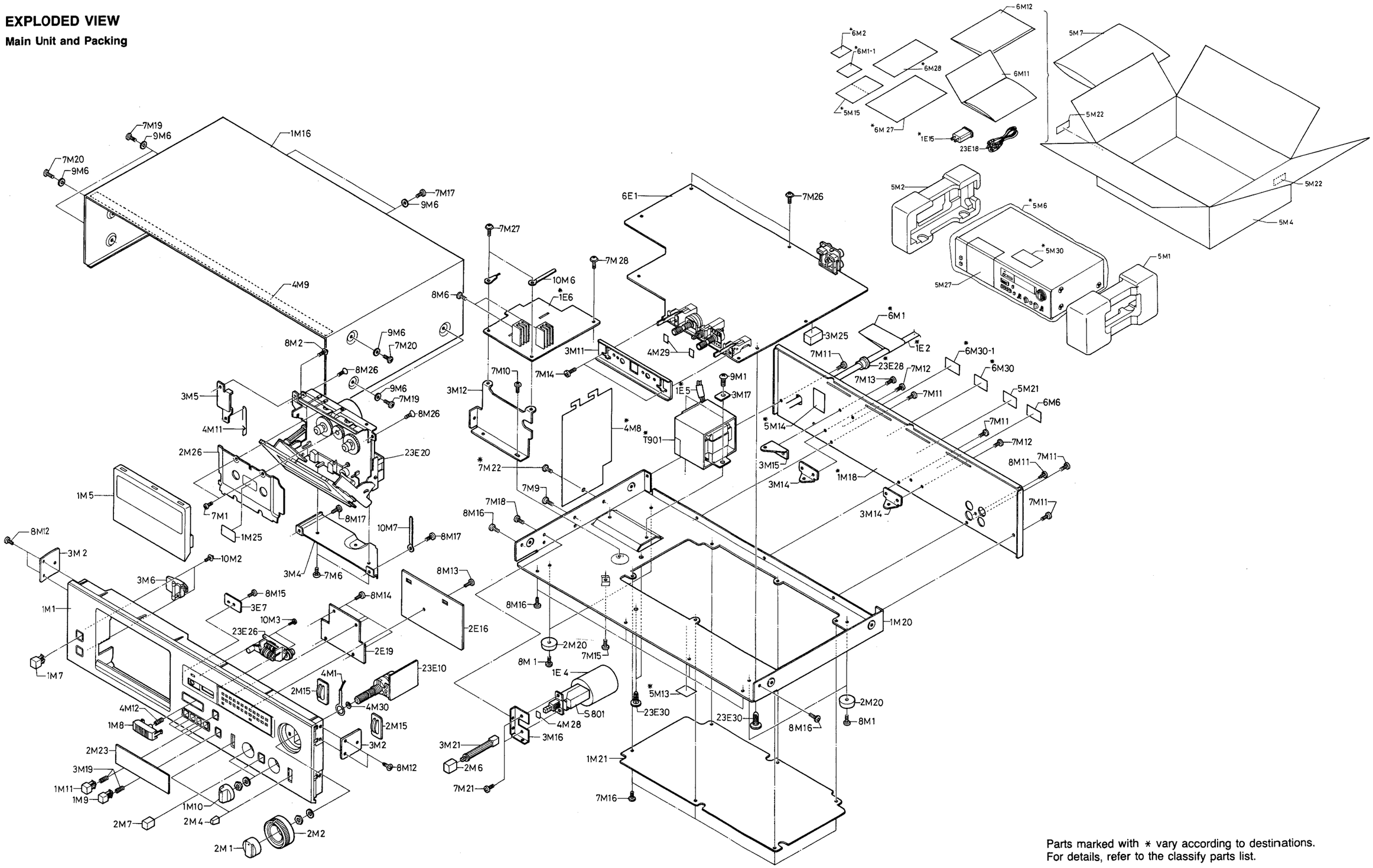
Cassette Mechanism



Q'TY	PART NO.	DESCRIPTION
1	A00960	SOFT DAMP ASSY 3B
1	A01950	RF ASSY 90A
1	E02650	HALL IC DN6838-A
1	E02950	PCB, IC-20
1	E02960	MAGNET 15X7.2X3-12
1	E04280	WIRE,1571(RE) 35X3X3#28
2	E04760	HARNESS BAND PL-100
1	E09760	CONNECTOR ASSY 25C-06F-05
1	E09770	CONNECTOR ASSY 25C-02F-04
1	E09780	CONNECTOR ASSY 25C-03F-04
1	E09790	CONNECTOR ASSY 25C-09F-05
1	E09800	CONNECTOR ASSY 25C-04F-05
1	F00510	FLYWHEEL 90B
1	HAJCH4544A	REC/PLAY HEAD
1	HAJAB3054A	ERASE HEAD
1	T01340	PINCH ROLLER ASSY 90A
1	K06460	HEAD PANEL CALKING 90A
1	K06470	CASE HOLDER CALKING 90A-L
1	M00490	MOTOR EG500AD-2B
1	M00640	MOTOR RF-510T-081200-N
1	P01030	SOLENOID NSO-4-00102-12V19
1	Q06210	SP, CAPSTAN SUPPORT 8RA
1	Q06370	SP, HEAD 9FA
2	Q06410	SP, REEL SUPPORT 9FA
1	Q07720	SP, LEVER TRIGER 90A
1	Q07730	SP, ARM BRAKE 90A
1	Q07740	SP, HEAD PANEL 90A
1	Q07750	SP, ARM GEAR 90A
1	Q07760	SP, PINCH ROLLER 90A
1	Q07770	SP, PINCH RET 90A
1	Q07810	SP, ARM SAFETY 90A
1	U07870	SP, CASSETTE CASE 90B
1	Q07880	SP, CASE LOCK 90B
2	S01270	LEAF SW LSA-1119R-1
2	S01280	LEAF SW LSA-1132FAU
1	U03960	CAPSTAN SUPPORT 9B
2	U04980	GEAR,REEL PLATE 9FA
2	U04990	REEL DLIVE 9FA
1	U05070	FLAT BELT 58.5X3.5X0.4
1	U05080	MOTTOR PULLEY 2X9.2R-U
1	U06440	GEAR,BASE 90A
1	U06450	LEVER,TRIGER 90A
1	U06460	ARM,GEAR 90A
1	U06470	ARM,BRAKE 90A
2	U06480	CASSETTE GUIDE 90A
1	U06510	HEAD BASE 90B
1	U06580	LEVER, CASE LOCK 90A
1	U06600	CASSETTE CASE 90A
1	U06670	GEAR,RF PULLEY 90A
1	U06960	GEAR,DRIVE 90A
1	W02380	COLLAR,ARM SAFTY 90A
1	Y08320	SHIELD PLATE T-2.0 30X17
1	Y09010	SP PLATE,PACK 90A
1	Y09080	ARM,SAFTY 90A
1	Y09100	CASE HOLDER 90A-R
1	Y09120	BRACKET,FLYWHEEL 90A
1	Y09330	COVER,SW 90B
1	Y09340	SHIELD PLATE T-2.0 34X17
2	080920	SCREW,BIND 2.0X11
1	170860	SCREW,TAP TITE 2.0X5
4	171450	SCREW,TAP TITE 2.6X4
1	171470	SCREW,TAP TITE 2.6X6
1	190850	SCREW,2.0X4W/SPRING WASHER
1	190920	SCREW,2.0X11W/SPRING WASHER
4	230370	SCREW,2.6X2.5
1	230420	SCREW,BIND 2.0X10
2	230620	SCREW,SHOULDECK 2.6X9
1	230630	SCREW,TAP TITE 2.6X23.5
4	230700	SCREW,BIND TAP TITE 2.0X4
1	230720	SCREW,SHOULDECK 2.6X5
1	230740	SCREW,TRUSS TAP TITE 2.6X6
1	301200	FW 2.2X6.0X0.4
1	301260	FW 2.8X7.5X0.5
1	322020	PSW 2.1X4.0X0.25
3	322050	PSW 2.1X4.0X0.5
1	400010	SPACER M2.6X20 ZMC
1	430150	PSW 2.1X4.0X0.4C
2	430160	PSW 1.6X3.2X0.40C
1	430170	NLW 1.9X7.0X0.5

EXPLODED VIEW

Main Unit and Packing



Parts marked with * vary according to destinations.
For details, refer to the classify parts list.

ELECTRICAL PARTS LIST

- Parts marked with ✳ vary according to destinations. For details, refer to the classify parts list.

MAIN PCB ASS'Y

REF. NO.	Q'TY	PART NO.	DESCRIPTION
P.C.BOARD			
6E 1	1	CA-K033	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
D001,003, 004,101~ 104,201~ 208,301, 302,701~ 705,707, 708	24	DS442-UA	DIODE
D709~711	3	1N4002-UA	DIODE
D712,713	2	DS442-UA	DIODE
Q001~008, 011	9	2SC2458-GRBL	TRANSISTOR
Q012	1	RN-1209	TRANSISTOR
Q013	1	2SC2458-GRBL	TRANSISTOR
Q014	1	RN-2209	TRANSISTOR
Q015,016	2	RN-1209	TRANSISTOR
Q101~106	6	2SC2458-GRBL	TRANSISTOR
Q107,108	2	2SA1048-GRBL	TRANSISTOR
Q109,110	2	2SK363-BL	TRANSISTOR
Q111~117, 201~220	27	2SC2458-GRBL	TRANSISTOR
Q302	1	2SB621NC-R,S	TRANSISTOR
Q303	1	2SC2458-GRBL	TRANSISTOR
Q305	1	2SB621NC-R,S	TRANSISTOR
Q306	1	2SD592NC-Q,R	TRANSISTOR
Q308,309	2	2SC1685-Q,R	TRANSISTOR
Q701~707	7	RN-2209	TRANSISTOR
Q708	1	2SA1048-Y,GR	TRANSISTOR
Q709,710, 712	3	RN-2209	TRANSISTOR
Q713	1	RN-1209	TRANSISTOR
Q714	1	2SC2458-GRBL	TRANSISTOR
Q715,716	2	RN-1209	TRANSISTOR
Q717,719	2	RN-2209	TRANSISTOR
Q720	1	RN-1209	TRANSISTOR
Q721	1	2SD592NC-R,S	TRANSISTOR
Q722	1	2SD592NC-Q,R	TRANSISTOR
Q725	1	2SA1048-Y,GR	TRANSISTOR
Q726	1	2SD592NC-R,S	TRANSISTOR
IC002	1	LA3160T	IC
IC003	1	LA6458SS	IC
IC004	1	CX20188	IC
IC101,102	2	NJM2068S-D	IC
IC103,201, 202	3	LA6458SS	IC
IC203	1	TC4052BP	IC
IC301	1	UPC1297CA	IC
IC302	1	TC4052BP	IC
IC701	1	UPD7520C-087	IC
IC703	1	L81645N	IC
ZD101~104	4	ZD50-039-UA	ZENER DIODE,1/2W,3.9V
ZD105	1	ZD50-127-UA	ZENER DIODE,1/2W,12.7V
ZD301	1	ZD50-180-UA	ZENER DIODE,1/2W,18.0V
ZD702	1	ZD50-057-UA	ZENER DIODE
ZD703	1	ZD50-051-UA	ZENER DIODE,1/2W,5.1V
ZD704	1	ZD50-096-UA	ZENER DIODE,1/2W,9.6V
ZD705	1	ZD50-035-UA	ZENER DIODE,1/2W,3.5V
CAPACITORS			
C001,002	2	HE40SJYB121K	CERAMIC CAPACITOR
C003,004	2	HE40SJYB391K	CERAMIC CAPACITOR
C005,006	2	HE40SJYB121K	CERAMIC CAPACITOR
C007,008	2	NS-25TW100M	ELECTROLYTIC CAPACITOR
C009,010	2	HE40SJYB101K	CERAMIC CAPACITOR
C011,012	2	NS-10TW221M	ELECTROLYTIC CAPACITOR
C013,014	2	MY-50VS273J	MYLAR CAPACITOR
C015,016	2	MY-50VS183J	MYLAR CAPACITOR
C017,018	2	NS-25TW100M	ELECTROLYTIC CAPACITOR
C019,020	2	MY-50VS102J	MYLAR CAPACITOR
C021,022	2	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C023,024	2	HE40SJYB101K	CERAMIC CAPACITOR
C025~028	4	NS-25TW100M	ELECTROLYTIC CAPACITOR
C029,030	2	NS-50TW2R2M	ELECTROLYTIC CAPACITOR
C031,032	2	NS-25TW100M	ELECTROLYTIC CAPACITOR
C033~036	4	MY-50VS222J	MYLAR CAPACITOR
C037,038	2	MY-50VS392J	MYLAR CAPACITOR
C039,040	2	NS-50TWR47M	ELECTROLYTIC CAPACITOR
C041,042	2	NS-50TWR15M	ELECTROLYTIC CAPACITOR
C043,044	2	MY-50VS153J	MYLAR CAPACITOR
C045,046	2	NS-50TWR22M	ELECTROLYTIC CAPACITOR
C047,048	2	MY-50VS683J	MYLAR CAPACITOR
C049,050	2	MY-50VS563J	MYLAR CAPACITOR
C051,052	2	MY-50VS562J	MYLAR CAPACITOR
C053,054	2	MY-50VS103J	MYLAR CAPACITOR
C055,056	2	NS-25TW100M	ELECTROLYTIC CAPACITOR
C057,058	2	NS-10TW331M	ELECTROLYTIC CAPACITOR
C071	1	NS-10TW221M-KF	ELECTROLYTIC CAPACITOR
C072	1	HC10SJZF473Z	CERAMIC CAPACITOR
C073	1	NS-10TW221M	ELECTROLYTIC CAPACITOR
C074	1	NS-10TW101M	ELECTROLYTIC CAPACITOR
C075	1	HE70SJYF103Z	CERAMIC CAPACITOR
C076	1	NS-16TW101M	ELECTROLYTIC CAPACITOR
C077,078	2	NS-25TW100M	ELECTROLYTIC CAPACITOR

REF. NO.	Q'TY	PART NO.	DESCRIPTION
C079	1	NS-16TW330M	ELECTROLYTIC CAPACITOR
C081	1	NS-50TW4R7M	ELECTROLYTIC CAPACITOR
C082	1	HE70SJYF103Z	CERAMIC CAPACITOR
C100	1	HE40SJYB471K	CERAMIC CAPACITOR
C101,102	2	MY-50VS102J	MYLAR CAPACITOR
C103,104	2	MY-50VS122J	MYLAR CAPACITOR
C105~112	8	NS-25TW100M	ELECTROLYTIC CAPACITOR
C113,114	2	HE40SJSL330K	CERAMIC CAPACITOR
C115,116	2	NS-10TW470M	ELECTROLYTIC CAPACITOR
C117,118	2	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C119,120	2	MY-50VS272J	MYLAR CAPACITOR
C121,122	2	NS-50TWR10M	ELECTROLYTIC CAPACITOR
C123,124	2	NS-50TWR33M	ELECTROLYTIC CAPACITOR
C125,126	2	NS-25TW100M	ELECTROLYTIC CAPACITOR
C127~130	4	NS-10TW101M	ELECTROLYTIC CAPACITOR
C131,132	2	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C133,134	2	NS-10TW101M	ELECTROLYTIC CAPACITOR
C135~137	3	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C191,192	2	NS-16TW470M	ELECTROLYTIC CAPACITOR
C193	1	NS-25TW100M	ELECTROLYTIC CAPACITOR
C194	1	NS-16TW470M	ELECTROLYTIC CAPACITOR
C201,202	2	HE40SJYB331K	CERAMIC CAPACITOR
C203,204	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C205,206	2	HE40SJYB101K	CERAMIC CAPACITOR
C207,208	2	MY-50VS182J	MYLAR CAPACITOR
C209,210	2	NS-25TW100M	ELECTROLYTIC CAPACITOR
C211,212	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C213,214	2	HE40SJYB101K	CERAMIC CAPACITOR
C215,216	2	NS-50TWR15M	ELECTROLYTIC CAPACITOR
C217,218	2	NS-25TW100M	ELECTROLYTIC CAPACITOR
C219,220	2	NS-25TW4R7M	ELECTROLYTIC CAPACITOR
C221,222	2	MY-50VS102J	MYLAR CAPACITOR
C223,224	2	MY-50VS392J	MYLAR CAPACITOR
C225,226	2	MY-50VS222J	MYLAR CAPACITOR
C227,228	2	MY-50VS152J	MYLAR CAPACITOR
C229,230	2	MY-50VS272J	MYLAR CAPACITOR
C231,232	2	MY-50VS332J	MYLAR CAPACITOR
C233,234	2	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C235,236	2	NS-50TW2R2M	ELECTROLYTIC CAPACITOR
C237~240	4	MY-50VS103J	MYLAR CAPACITOR
C241,242	2	NS-50TW2R2M	ELECTROLYTIC CAPACITOR
C243~246	4	NS-50TW1R0M	ELECTROLYTIC CAPACITOR
C271	1	NS-35TW221M-KF	ELECTROLYTIC CAPACITOR
C272	1	NS-25TW470M	ELECTROLYTIC CAPACITOR
C273	1	NS-16TW101M	ELECTROLYTIC CAPACITOR
C274,275	2	HC10SJZF473Z	CERAMIC CAPACITOR
C276	1	HE70SJYF103Z	CERAMIC CAPACITOR
C277	1	NS-16TW470M	ELECTROLYTIC CAPACITOR
C301,302	2	MY-50VS103J	MYLAR CAPACITOR
C303,304	2	HE40SJYB681K	CERAMIC CAPACITOR
C305,306	2	MY-50VS223J	MYLAR CAPACITOR
C307,308	2	MY-50VS393J	MYLAR CAPACITOR
C309,310	2	APSV100V101J	POLYESTER FILM CAPACITOR
C311,312	2	MY-50VS473K	MYLAR CAPACITOR
C313,314	2	APSV100V471J	POLYESTER FILM CAPACITOR
C351	1	MY100VS123J	MYLAR CAPACITOR
C352	1	MY-50VS153J	MYLAR CAPACITOR
C353,354	2	MY-50VS332J	MYLAR CAPACITOR
C355	1	NS-25TW100M	ELECTROLYTIC CAPACITOR
C356	1	HE40SJSL100D	CERAMIC CAPACITOR
C357,358	2	HE70SJYF103Z	CERAMIC CAPACITOR
C359	1	NS-16TW101M	ELECTROLYTIC CAPACITOR
C360	1	NS-25TW101M	ELECTROLYTIC CAPACITOR
C361	1	NS-25TW470M	ELECTROLYTIC CAPACITOR
C362	1	MY-50VS103J	MYLAR CAPACITOR
C701	1	HE70SJYF103Z	CERAMIC CAPACITOR
C702	1	NS-50TW2R2M	ELECTROLYTIC CAPACITOR
C707	1	HE70SJYF103Z	CERAMIC CAPACITOR
C708	1	HC10SJZF473Z	CERAMIC CAPACITOR
C709	1	NS-16TW101M	ELECTROLYTIC CAPACITOR
C710	1	NS-16TW222M-KF	ELECTROLYTIC CAPACITOR
C711	1	NS-16TW220M	ELECTROLYTIC CAPACITOR
C712	1	NS-16TW222M-KF	ELECTROLYTIC CAPACITOR
RESISTORS			
R001,002	2	KA16ST100J-UA	CARBON RESISTOR
R003,004	2	KA16ST820J-UA	CARBON RESISTOR
R005,006	2	KA16ST222J-UA	CARBON RESISTOR
R007,008	2	KA16ST154J-UA	CARBON RESISTOR
R009,010	2	KA16ST104J-UA	CARBON RESISTOR
R011,012	2	KA16ST223J-UA	CARBON RESISTOR
R013~016	4	KA16ST472J-UA	CARBON RESISTOR
R017~020	4	KA16ST153J-UA	CARBON RESISTOR
R021,022	2	KA16ST104J-UA	CARBON RESISTOR
R023,024	2	KA16ST823J-UA	CARBON RESISTOR
R025,026	2	KA16ST202J-UA	CARBON RESISTOR
R027~032	6	KA16ST223J-UA	CARBON RESISTOR
R033,034	2	KA16ST202J-UA	CARBON RESISTOR
R037,038	2	KA16ST183J-UA	CARBON RESISTOR
R039,040	2	KA16ST203J-UA	CARBON RESISTOR
R041,042	2	KA16ST162J-UA	CARBON RESISTOR
R043,044	2	KA16ST105J-UA	CARBON RESISTOR
R045,046	2	MF25ST561G-UA	METAL FILM RESISTOR
R047,048	2	KA16ST392J-UA	CARBON RESISTOR
R049,050	2	KA16ST332J-UA	CARBON RESISTOR
R051,052	2	MF25ST223G-UA	METAL FILM RESISTOR
R053,054	2	KA16ST752J-UA	CARBON RESISTOR
R055,056	2	KA16ST681J-UA	CARBON RESISTOR
R057,058	2	KA16ST912J-UA	CARBON RESISTOR

REF. NO.	Q'TY	PART NO.	DESCRIPTION
R059,060	2	KA16ST271J-UA	CARBON RESISTOR
R061,062	2	KA16ST332J-UA	CARBON RESISTOR
R065,066	2	KA16ST271J-UA	CARBON RESISTOR
R067,068	2	KA16ST332J-UA	CARBON RESISTOR
R077	1	KA16ST223J-UA	CARBON RESISTOR
R078	1	KA16ST151J-UA	CARBON RESISTOR
R079	1	KA16ST122J-UA	CARBON RESISTOR
R080	1	KA16ST152J-UA	CARBON RESISTOR
R081	1	KA16ST104J-UA	CARBON RESISTOR
R082	1	KA16ST102J-UA	CARBON RESISTOR
R083	1	MF25ST134G-UA	METAL FILM RESISTOR
R084	1	KA16ST682J-UA	CARBON RESISTOR
R085	1	KA16ST393J-UA	CARBON RESISTOR
R086	1	KA16ST822J-UA	CARBON RESISTOR
R087	1	KA16ST223J-UA	CARBON RESISTOR
R088	1	KA16ST332J-UA	CARBON RESISTOR
R089	1	KA16ST103J-UA	CARBON RESISTOR
R090	1	KA16ST332J-UA	CARBON RESISTOR
R091	1	KA16ST153J-UA	CARBON RESISTOR
R092	1	KA16ST472J-UA	CARBON RESISTOR
R093	1	KA16ST223J-UA	CARBON RESISTOR
R094	1	KA16ST102J-UA	CARBON RESISTOR
R095	1	KA16ST472J-UA	CARBON RESISTOR
R101,102	2	KA16ST103J-UA	CARBON RESISTOR
R103~106	4	KA16ST223J-UA	CARBON RESISTOR
R107,108	2	KA16ST332J-UA	CARBON RESISTOR
R109,110	2	KA16ST103J-UA	CARBON RESISTOR
R111~114	4	KA16ST224J-UA	CARBON RESISTOR
R115,116	2	KA16ST103J-UA	CARBON RESISTOR
R117,118	2	KA16ST223J-UA	CARBON RESISTOR
R119,120	2	KA16ST104J-UA	CARBON RESISTOR
R121,122	2	KA16ST333J-UA	CARBON RESISTOR
R123~126	4	KA16ST224J-UA	CARBON RESISTOR
R127,128	2	KA16ST182J-UA	CARBON RESISTOR
R129,130	2	KA16ST153J-UA	CARBON RESISTOR
R131~134	4	KA16ST303J-UA	CARBON RESISTOR
R135,136	2	KA16ST472J-UA	CARBON RESISTOR
R137,138	2	KA16ST153J-UA	CARBON RESISTOR
R139,140	2	KA16ST203J-UA	CARBON RESISTOR
R141,142	2	KA16ST563J-UA	CARBON RESISTOR
R143,144	2	KA16ST103J-UA	CARBON RESISTOR
R145,146	2	KA16ST203J-UA	CARBON RESISTOR
R147,148	2	KA16ST272J-UA	CARBON RESISTOR
R149,150	2	KA16ST474J-UA	CARBON RESISTOR
R151,152	2	KA16ST102J-UA	CARBON RESISTOR
R153,154	2	KA16ST223J-UA	CARBON RESISTOR
R155,156	2	KA16ST474J-UA	CARBON RESISTOR
R157,158	2	KA16ST565J-UA	CARBON RESISTOR
R159,160	2	KA16ST473J-UA	CARBON RESISTOR
R161~164	4	KA16ST103J-UA	CARBON RESISTOR
R165,166	2	KA16ST333J-UA	CARBON RESISTOR
R167,168	2	KA16ST101J-UA	CARBON RESISTOR
R169,170	2	KA16ST103J-UA	CARBON RESISTOR
R171~174	4	KA16ST224J-UA	CARBON RESISTOR
R175,176	2	KA16ST223J-UA	CARBON RESISTOR
R191,192	2	KA16ST221J-UA	CARBON RESISTOR
R193	1	KA16ST472J-UA	CARBON RESISTOR
R194	1	KA16ST221J-UA	CARBON RESISTOR
R201~204	4	KA16ST153J-UA	CARBON RESISTOR
R205~208	4	KA16ST332J-UA	CARBON RESISTOR
R209,210	2	KA16ST333J-UA	CARBON RESISTOR
R211,212	2	KA16ST104J-UA	CARBON RESISTOR
R213~216	4	KA16ST153J-UA	CARBON RESISTOR
R217~220	4	KA16ST333J-UA	CARBON RESISTOR
R221,222	2	KA16ST823J-UA	CARBON RESISTOR
R223,224	2	KA16ST183J-UA	CARBON RESISTOR
R225,226	2	KA16ST823J-UA	CARBON RESISTOR
R227~232	6	KA16ST223J-UA	CARBON RESISTOR
R233,234	2	KA16ST153J-UA	CARBON RESISTOR
R235,236	2	KA16ST472J-UA	CARBON RESISTOR
R237,238	2	KA16ST223J-UA	CARBON RESISTOR
R239,240	2	KA16ST683J-UA	CARBON RESISTOR
R241,242	2	KA16ST105J-UA	CARBON RESISTOR
R243,244	2	KA16ST223J-UA	CARBON RESISTOR
R245,246	2	KA16ST154J-UA	CARBON RESISTOR
R247~254	8	KA16ST105J-UA	CARBON RESISTOR
R255~260	6	KA16ST104J-UA	CARBON RESISTOR
R261,262	2	KA16ST123J-UA	CARBON RESISTOR
R263,264	2	KA16ST472J-UA	CARBON RESISTOR
R265~268	4	KA16ST223J-UA	CARBON RESISTOR
R269,270	2	KA16ST104J-UA	CARBON RESISTOR
R271,272	2	KA16ST822J-UA	CARBON RESISTOR
R273,274	2	KA16ST334J-UA	CARBON RESISTOR
R275,276	2	KA16ST473J-UA	CARBON RESISTOR
R277~282	6	KA16ST103J-UA	CARBON RESISTOR
R283,284	2	KA16ST272J-UA	CARBON RESISTOR
R285,286	2	KA16ST102J-UA	CARBON RESISTOR
R287,288	2	KA16ST562J-UA	CARBON RESISTOR
R289,290	2	KA16ST272J-UA	CARBON RESISTOR
R291,292	2	KA16ST182J-UA	CARBON RESISTOR
R301,302	2	KA16ST333J-UA	CARBON RESISTOR
R303,304	2	KA16ST274J-UA	CARBON RESISTOR
R305,306	2	KA16ST562J-UA	CARBON RESISTOR
R307,308	2	KA16ST472J-UA	CARBON RESISTOR
R353	1	KA16ST103J-UA	CARBON RESISTOR
R354	1	KA16ST152J-UA	CARBON RESISTOR
R355	1	KA16ST471J-UA	CARBON RESISTOR
R356~360	5	KA16ST104J-UA	CARBON RESISTOR
R361	1	KA16ST222J-UA	CARBON RESISTOR

REF. NO.	Q'TY	PART NO.	DESCRIPTION
R362	1	KA16ST472J-UA	CARBON RESISTOR
R363	1	KA16ST473J-UA	CARBON RESISTOR
R367	1	KA16ST102J-UA	CARBON RESISTOR
R368	1	KA16ST681J-UA	CARBON RESISTOR
R369,370	2	KA16ST333J-UA	CARBON RESISTOR
R371	1	KA16ST331J-UA	CARBON RESISTOR
R372,373	2	KA16ST223J-UA	CARBON RESISTOR
R374,375	2	KA16ST104J-UA	CARBON RESISTOR
R376	1	KA16ST221J-UA	CARBON RESISTOR
R377,378	2	KA16ST472J-UA	CARBON RESISTOR
R379	1	KA16ST152J-UA	CARBON RESISTOR
R380	1	KA16ST330J-UA	CARBON RESISTOR
R381	1	KA16ST103J-UA	CARBON RESISTOR
R701	1	KA16ST473J-UA	CARBON RESISTOR
R702,703	2	KA16ST153J-UA	CARBON RESISTOR
R704	1	KA16ST105J-UA	CARBON RESISTOR
R705	1	KA16ST104J-UA	CARBON RESISTOR
R707,708	2	KA16ST223J-UA	CARBON RESISTOR
R709	1	KA16ST122J-UA	CARBON RESISTOR
R710	1	KA16ST153J-UA	CARBON RESISTOR
R711,712	2	KA16ST473J-UA	CARBON RESISTOR
R713	1	KA16ST222J-UA	CARBON RESISTOR
R714	1	KA16ST100J-UA	CARBON RESISTOR
R715	1	KA16ST331J-UA	CARBON RESISTOR
R716	1	KA16ST222J-UA	CARBON RESISTOR
R717,725	2	KA16ST682J-UA	CARBON RESISTOR
R726	1	KA16ST223J-UA	CARBON RESISTOR
R727	1	KA16ST152J-UA	CARBON RESISTOR
R728	1	KA16ST473J-UA	CARBON RESISTOR
VR001	1	EWG-G1A301B15	ROTARY POTENTIOMETER
VR301	1	EWH-HXA301B53	ROTARY POTENTIOMETER
SVR001,002	2	SVR-06T3B102	SEMI-VARIABLE
SVR003~006	4	SVR-06T3B203	SEMI-VARIABLE
SVR101,102	2	SVR-06T3B103	SEMI-VARIABLE
SVR201~204	4	SVR-06T3B502	SEMI-VARIABLE
SVR205~208	4	SVR-06T3B102	SEMI-VARIABLE
SVR209,210	2	SVR-06T3B203	SEMI-VARIABLE
SVR301~306	6	SVR-06T3B503	SEMI-VARIABLE
COILS			
F001,002	2	184028	FILTER BLOCK
F101,102	2	184025	FILTER BLOCK
F201,202	2	184014	FILTER BLOCK
L201,202	2	RC875-223J	INDUCTOR
L203,204	2	RC875-153J	INDUCTOR
L301,302	2	184027	FILTER BLOCK
L303	1	190027	OSC COIL
L304	1	RC875-102J	INDUCTOR
SWITCHES			
S001	1	SW-42350180	SLIDE SWITCH
S101	1	SW-1101220	PUSH SWITCH
S301	1	SW-42350180	SLIDE SWITCH
MISCELLANEOUS			
W001	1	R-020-30	CABLE ASS'Y
W102	1	007S240R10-J-J	SOLDER-PLATED WIRE
MC302	1	MC03-K073	MICRO SOCKET ASS'Y
MC701	1	MT03-P125-K074	MICRO SOCKET ASS'Y
MP001	1	PI25C-06M	MICRO PLUG
MP301	1	PI25C-02M	MICRO PLUG
MP551	1	171825-4	MICRO PLUG
MP701	1	IL-S07PS2T2-EF	CONNECTOR
MP703	1	PI25C-03M	MICRO PLUG
MP704	1	PI25C-09M	MICRO PLUG
MP705	1	PI25C-04M	MICRO PLUG
RL001	1	AG80239	RELAY
TP001,002	2	171825-2	MICRO PLUG
TP003,201, 202	3	171825-3	MICRO PLUG
16E 1	1	YKC21-0018A	RCA JACK 4P
23E 7	100	E100-UA	JUMP WIRE
23E 8	28	E050-UA	JUMP WIRE

REC. & BALANCE PCB ASS'Y

REF. NO.	Q'TY	PART NO.	DESCRIPTION
P.C.BOARD			
23E10	1	RBV-K033	PRINTED CIRCUIT BOARD
RESISTORS			
R177,178	2	KA16ST472J-UA	CARBON RESISTOR
VR101	1	EWJ-S1AW24A14	ROTARY POTENTIOMETER
MISCELLANEOUS			
W101	1	468S245B30-J-J	5-LEAD, FLAT CABLE
W201	1	007S240B07-C-C	SOLDER-PLATED WIRE

POWER SUPPLY PCB ASS'Y

REF. NO.	Q'TY	PART NO.	DESCRIPTION
P.C.BOARD			
* 1E 6	1	PS-K037	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
D801~808	8	1N4002	DIODE
Q801	1	2SD592NC-Q,R	TRANSISTOR
Q802	1	2SD1406-Y,GR	TRANSISTOR
IC801	1	AN7815F	IC
ZD801	1	ZD50-132	ZENER DIODE,1/2W,13.2V
CAPACITORS			
* C801	1	ECQU2A103MN	METALLIZED FILM CAPACITOR
C802	1	NS-25TW102M-KF	ELECTROLYTIC CAPACITOR
C803	1	NS-35TW222M-KF	ELECTROLYTIC CAPACITOR
C804	1	NS-35TW102M-KF	ELECTROLYTIC CAPACITOR
C805~807	3	NS-16TW101M-KF	ELECTROLYTIC CAPACITOR
RESISTORS			
R801,802	2	KA25ST2R2J-KF	CARBON RESISTOR
R803	1	KA25ST102J-KF	CARBON RESISTOR
R804	1	KA25ST101J-KF	CARBON RESISTOR
R805	1	KA25ST2R7J-KF	CARBON RESISTOR
MISCELLANEOUS			
1E10	4	23165102-BB-C	FUSE HOLDER
1E12	7	RP-001	TERMINAL PIN
1E14	3	IPS-1041-4	JUMP WIRE
AL801,802	2	59BS4795	GND LUG
EL801	1	59BS1692	GND LUG
* FU801	1	FU-521024-GGS	FUSE
* FU804	1	FU-511224-GGS	FUSE
MP801	1	171825-3	MICRO PLUG
MP802	1	PI25C-03M	MICRO PLUG
MP803	1	B2P-SHF-1AA	MICRO PLUG
23E25	2	OSH-1625-MP	HEAT SINK

LEVEL METER PCB ASS'Y

REF. NO.	Q'TY	PART NO.	DESCRIPTION
P.C.BOARD			
2E16	1	LM-K040	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
D601,602	2	DS442-UA	DIODE
Q605	1	RN1207	TRANSISTOR
IC551,552	2	L81412	IC
IC602	1	TC9130P	IC
LD551~568	18	LN342GP	LED
LD569~572	4	LN442YP	LED
LD573,574, 601	3	LN242RP	LED
LD603	1	LN342GP	LED
CAPACITORS			
C551,552	2	S5-50TW1R0M	ELECTROLYTIC CAPACITOR
C553,554	2	S5-50TW2R2M	ELECTROLYTIC CAPACITOR
C558	1	S5-16TW100M	ELECTROLYTIC CAPACITOR
C559,560, 602,603	4	S5-16TW4R7M	ELECTROLYTIC CAPACITOR
C609,610	2	TP125X103N-UA	CERAMIC CAPACITOR
C611	1	HE70SJYF103Z	CERAMIC CAPACITOR
RESISTORS			
R551~556	8	KA16ST561J-UA	CARBON RESISTOR
R559,560	2	KA16ST182J-UA	CARBON RESISTOR
R561,562	2	KA16ST272J-UA	CARBON RESISTOR
R563	1	KA16ST334J-UA	CARBON RESISTOR
R565,566	2	KA16ST823J-UA	CARBON RESISTOR
R567,568	2	KA16ST223J-UA	CARBON RESISTOR
R575	1	KA16ST821J-UA	CARBON RESISTOR
R602	1	KA16ST561J-UA	CARBON RESISTOR
R610	1	KA16ST103J-UA	CARBON RESISTOR
R615~618	4	KA16ST104J-UA	CARBON RESISTOR
R619	1	KA16ST103J-UA	CARBON RESISTOR
SWITCHES			
S602~608	7	SKHHAK	TACT SWITCH
MISCELLANEOUS			
W601	1	007S240R16-J-J	SOLDER-PLATED WIRE
W602	1	007S240W16-J-J	SOLDER-PLATED WIRE
W603	1	007S240Y16-J-J	SOLDER-PLATED WIRE
W604	1	007S240A16-J-J	SOLDER-PLATED WIRE
3E24	16	E100-UA	JUMP WIRE
MC551	1	MC04-K070	MICRO SOCKET ASS'Y
MC603	1	MC02-K083	MICRO SOCKET ASS'Y

KEY SWITCH PCB ASS'Y

REF. NO.	Q'TY	PART NO.	DESCRIPTION
P.C.BOARD			
2E19	1	KY-K040	PRINTED CIRCUIT BOARD
MISCELLANEOUS			
MC602	1	MK07-K084	MICRO SOCKET ASS'Y

CAR LED PCB ASS'Y

REF. NO.	Q'TY	PART NO.	DESCRIPTION
P.C.BOARD			
3E 7	1	R-K040	PRINTED CIRCUIT BOARD
SEMICONDUCTORS			
LD602	1	LN442YP	LED

OTHER PARTS

REF. NO.	Q'TY	PART NO.	DESCRIPTION
MISCELLANEOUS			
W801	1	672S220T16-C-D	SOLDER PLATED WIRE
W802	1	672S220A16-C-D	SOLDER-PLATED WIRE
23E19	1	CV-6255	COUNTER VELT
23E23	6	BK-1	CORD CLAMP
23E24	5	NO.5167	CORD CLAMP

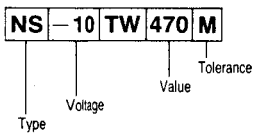
Classify Parts List

A : USA A2: TAIWAN B1: AUSTRALIA/N.Z. C1: W.GERMANY
A1: CANADA B : U.K. C : EUROPE & OTHERS C2: G.P.M

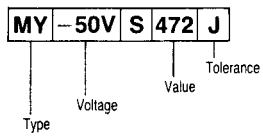
Ref.No.	Description	A	A1	A2	B	B1	C/C1	C2
EXPLODED VIEW								
1E 2	LINE CORD	ACC-033D3-4EC1	ACC-033D3-4EC1	ACC-033D3-4EC1	ACC-013D3-4EC4	ACC-030D3-4EC1	ACC-005D3-4EC1	ACC-005D3-4EC1
1E 5	UL TUBE	Nil	U9-#03B14	Nil	Nil	Nil	Nil	Nil
1E15	CONVERSION PLUG	Nil	Nil	Nil	Nil	Nil	Nil	S-I6115#01
23E28	CORD STOPPER	SR-4N-4	SR-4N-4	SR-4N-4	SR-5N-4	SR-4N-4	SR-4N-4	SR-4N-4
1M18	REAR PANEL	N21667-1	N21667-1	N21667-1	N21667-2	N21667-2	N21667-3	N21667-3
4M 8	COVER, INSULATION	Nil	Nil	Nil	N45424	N45424	N45424	N45424
5M 6	POLYETHYLENE BAG (UNIT)	N41318-1-OS	N41318-1-OS	N41318-1-OS	N44660-OS	N41318-1-OS	N41318-1-OS	N41318-1-OS
5M13	LABEL, SA1965(LIGHTNING FLASH)	N44043-OS	N44043-OS	N44043-OS	Nil	Nil	Nil	Nil
5M14	LABEL, FUSE	N44525-OS	N44525-OS	N44525-OS	Nil	Nil	Nil	Nil
5M15	CARD, WARRANTY REGISTRATION	N45359	Nil	N45359	Nil	Nil	Nil	Nil
5M30	STICKER, WARNING	Nil	Nil	Nil	N45418	Nil	Nil	Nil
6M 1	TAG (AC CORD)	Nil	Nil	Nil	N41117	Nil	Nil	Nil
6M 1-1	NON-WARRANTY CARD	Nil	LEN-200	Nil	Nil	Nil	Nil	Nil
6M 2	CARD, WARRANTY	Nil	LEN-201	Nil	Nil	Nil	Nil	Nil
6M27	SAFETY INSTRUCTION SHEET	BK3035	Nil	BK3035	Nil	Nil	Nil	Nil
6M28	SHEET, PORTABLE CART WARNING	N45475	Nil	N45475	Nil	Nil	Nil	Nil
6M30	LABEL, UL	N44934A	Nil	Nil	Nil	Nil	Nil	Nil
6M30-1	CSA LL LABEL (NL)	Nil	N45535-NL	Nil	Nil	Nil	Nil	Nil
7M22	TAP SCREW S, BIND HEAD, B	Nil	Nil	Nil	TSB+30X06-B	TSB+30X06-B	TSB+30X06-B	TSB+30X06-B
T901	POWER TRANSFORMER	NPT-K0114	NPT-K0114	NPT-K0114	NPT-K0115	NPT-K0115	NPT-K0115	NPT-K0115
POWER SUPPLY PCB								
1E 6	PRINTED CIRCUIT BOARD	PS-K037	PS-K037	PS-K037	PS-K035	PS-K035	PS-K035	PS-K035
C801	METALLIZED FILM CAPACITOR	ECQU2A103MN	ECQU2A103MN	ECQU2A103MN	ECQU2A103MF	ECQU2A103MF	ECQU2A103MF	ECQU2A103MF
FU801	FUSE	FU-521024-GGS	FU-521024-GGS	FU-521024-GGS	FU-528017T	FU-528017T	FU-528017T	FU-528017T
FU802,803	FUSE	Nil	Nil	Nil	FU-526317T	FU-526317T	FU-526317T	FU-526317T
FU804	FUSE	FU-511224-GGS	FU-511224-GGS	FU-511224-GGS	FU-526317T	FU-526317T	FU-526317T	FU-526317T

Capacitors Description

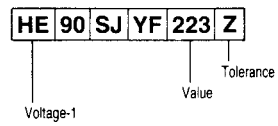
- **Electrolytic**

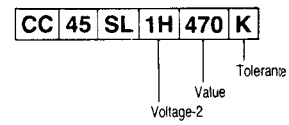


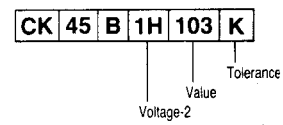
- **Mylar · Styrol**



- **Ceramic**







- **Electrolytic**

Type	Voltage	Value	Tolerance
LL: Low Leak	-10: 10V	R47: 0.47μF	K: ±10%
NP: Non-Pole	-50: 50V	4R7: 4.7μF	M: ±20%
NS: Standard	6R3: 6.3V	470: 47μF	
		471: 470μF	
		472: 4700μF	

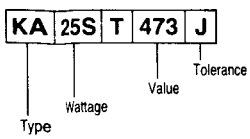
- **Mylar · Styrol**

Type	Voltage	Value	Tolerance
MY: Mylar	-25V: 25V	4R7: 4.7pF	G: ±2%
ST: Styrol	125V: 125V	470: 47pF	J: ±5%
	-63T: 63V	471: 470pF	K: ±10%
		472: 4700pF	M: ±20%
		473: 0.047μF	
		474: 0.47μF	
		(1000pF=0.001μF)	

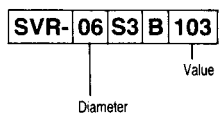
Voltage-1	Voltage-2	Value	Tolerance
HC: 25V	1E: 25V	4R7: 4.7pF	C: ±0.25pF
HE: 50V	1H: 50V	470: 47pF	D: ±0.5pF
H: 100V	2H: 500V	471: 470pF	F: ±1pF
HK: 250V		472: 4700pF	J: ±5%
HM: 500V		473: 0.047μF	K: ±10%
		474: 0.47μF	M: ±20%
		(1000pF=0.001μF)	Z: +80~-20%

Resistors Description

- **Fixed**



- **Semi-Variable**



Type	Wattage	Value	Tolerance	Diameter
CE: Cement Case	-2W: 2W	R47: 0.47Ω	M: ±20%	08: 8φ
FR: Flame Proof	10W: 10W	4R7: 4.7Ω	K: ±10%	10: 10φ
KA: Carbon	16S: 1/6W	470: 47Ω	J: ±5%	06: 6φ
MF: Metal Film	20S: 1/5W	471: 470Ω	G: ±2%	
RF: Fusible	25S: 1/4W	472: 4.7kΩ	F: ±1%	
SA: Metal Oxide	50S: 1/2W	473: 47kΩ	D: ±0.5%	
	50X: 1/2W	474: 470kΩ		
	S3W: 3W	475: 4.7MΩ		

SERVICE MANUAL

6340
CASSETTE DECK

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